….the aviation software company

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ACAS

Version 2.5

DBM8906

**INSTALLATION INSTRUCTIONS
&
OPERATING MANUAL**

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Address Data Files

Aircraft Orders Data Files

Maintenance Data Files

Appendix F: ACAS Main Data Files - Descriptions by Data Field Type

Fleet Data Files

Address Data Files

Aircraft Orders Data Files

Maintenance Data Files

Installation - Single Workstation Licence

Compatibility

IBM Compatible PC with 486 or Pentium processor, Windows 95/98 or Windows NT, VGA screen or higher, Microsoft compatible mouse

Hard Disk Capacity Requirement: 220 Megabytes (240 Megabytes including Temporary File Workspace) – excluding Optional Modules

Memory Requirement: 16 Megabytes minimum (32 Megabytes recommended)

ACAS Installation Instructions[1]

Please shut down all existing applications PRIOR to installation

Introduction

The installation procedure creates a directory called *ACAS* and a number of Sub-Directories including one called ACASRITE and CONTMAN.
The main *ACAS* directory contains all files which only require read access, whereas ACAS\ACASRITE and ACAS\CONTMAN contain all index files and data files which require read/write access.

Windows 95/98/NT4: the *ACAS* setup routine will start automatically after the CD has been placed in the CD drive – select Full Installation on the first screen.

Follow the on-screen instructions and then *ACAS* will configure the data files automatically. When all the files have been configured, you will be returned to the desktop.

---

[1] Single Workstation Licence (or Corporate Discount Site Licence) only
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Starting ACAS

You are now ready to start ***ACAS*** - double-click on the ***ACAS*** icon and a Screen with your Company Name will appear followed by the Main Menu

Update Installation Instructions**²**

Windows 95/98/NT4: the ***ACAS*** setup routine will start automatically after the CD has been placed in the CD drive

Follow the on-screen instructions (the installation program will remember the Drive and Path settings you previously used to install ***ACAS*** and will show them by default). When all the files have been installed, you will be returned to the desktop.

Double-Click on the ***ACAS*** icon and ***ACAS*** is ready for use.

Now please select Update News on the Main Menu to acquaint yourself with the Update Details. Important messages are contained on the screens to alert you to any changes in Database operation and programs/menu selections in addition to providing a summary of the number and types of aircraft and their data reference date by manufacturer contained in the Data Update.

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² Single Workstation Licence (or Corporate Discount Site Licence) only
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Installation - Network Licence[3]

Please shut down all existing applications PRIOR to installation

Preparation

Disk space

Some preparation needs to be done with a network install. ACAS 2.5 requires about 220 MB of space to install. However, adding the TIME-SERIES data files and optional modules can mean a directory space of around 400MB. This can expand, depending on how much data and saved query files are written to the *ACAS* directory.

Where to install

The *ACAS* network installation **should not be installed from the server** and instead should be done from a **normal workstation**. This will allow the ACAS configuration settings to be the same for every user workstation across the network.

Drive mappings

```
ACAS should be installed to a common location on a network drive.
From every desktop, all users should have the same drive map and
path to the application folder, in order to access the application,
e.g., "G:\ACAS". You may install to an existing network drive, or
create a new, shared folder from the server and map all users to
that, again using the same drive letter. This will avoid the need to
create a new CONFIG.FPW file on every client PC.
```

Perform Installation

Sit down at your workstation and not at the server. You need to have the correct user rights to install the application to the network. Before starting, insert the CD into the drive. It should automatically start the setup program. If not, run SETUP.EXE from the CD.

---

[3] Network or Corporate Site Licence Only
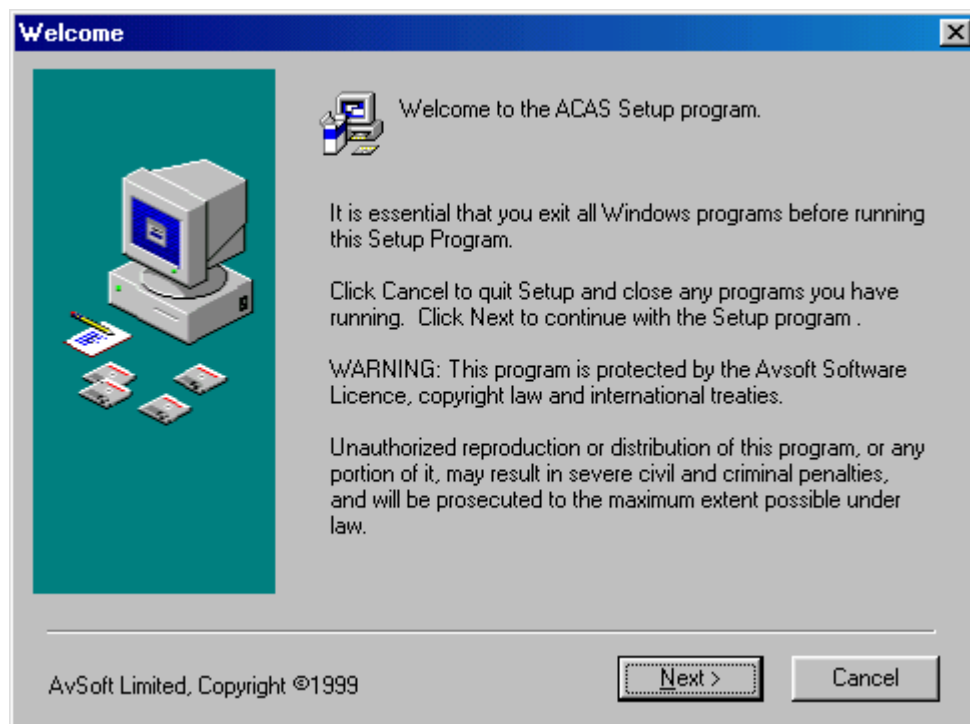
You should see the screen above. Click on next
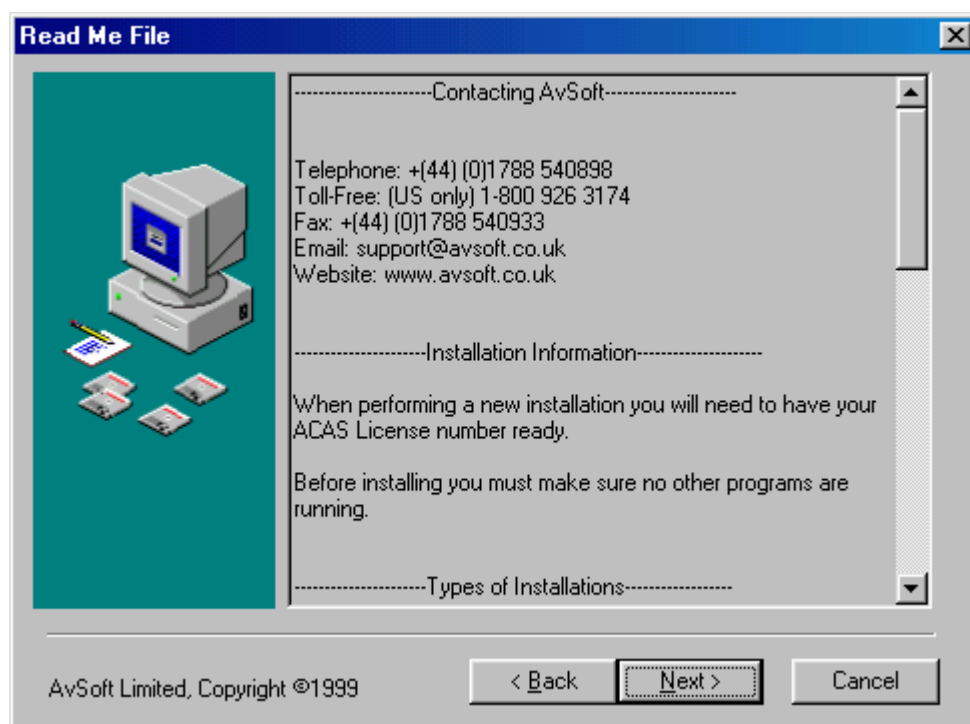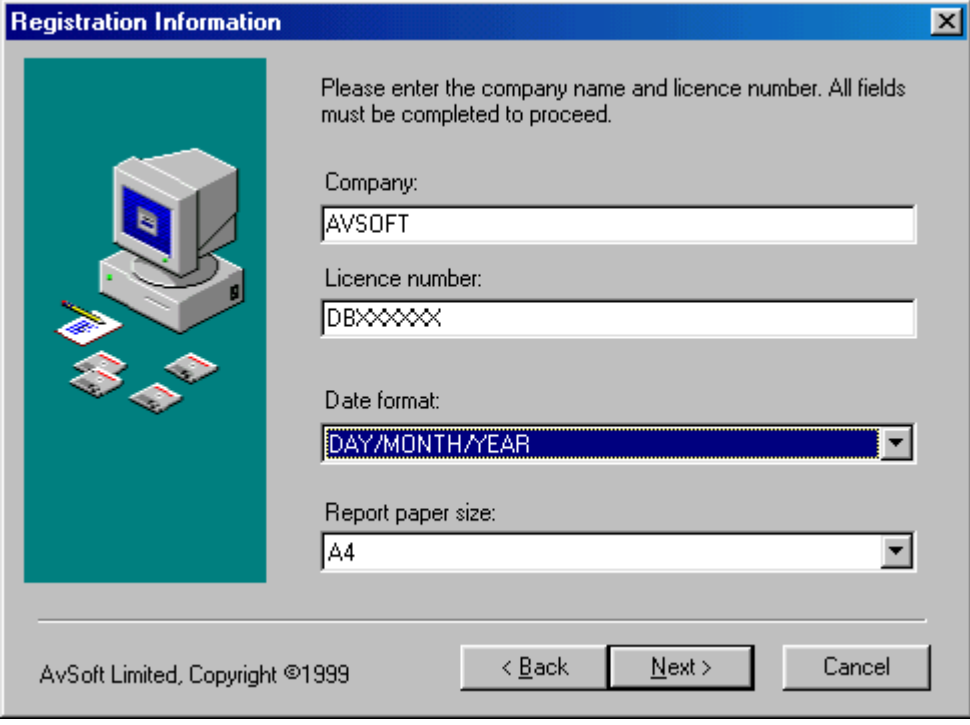
This screen above outlines how to install ACAS.
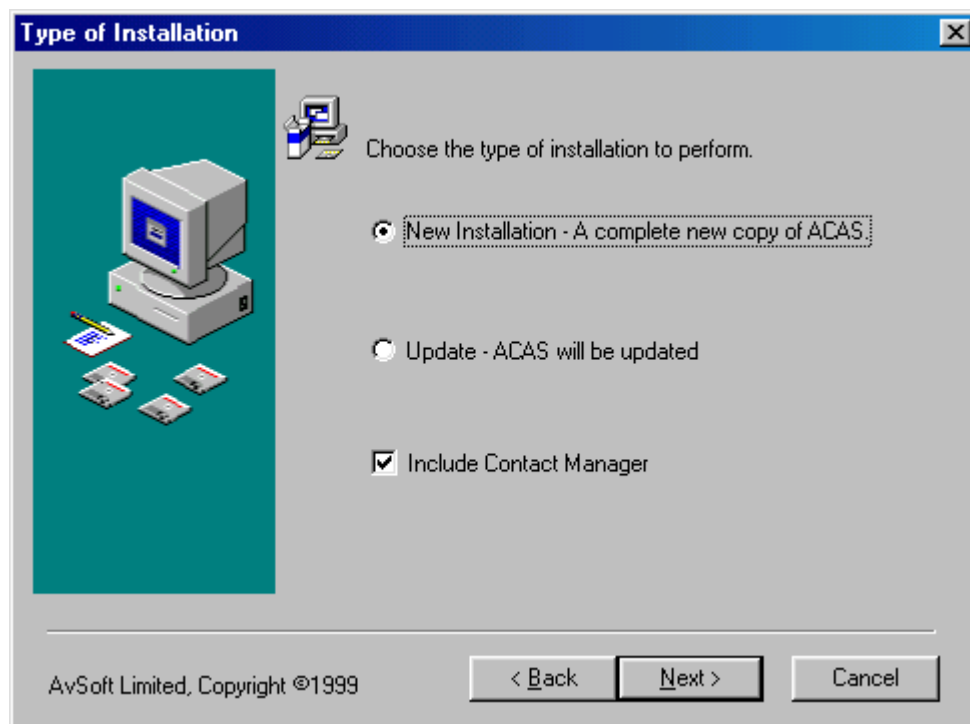
On the screen above, choose New Installation and make sure "Include Contact Manager" is checked. Click on next.
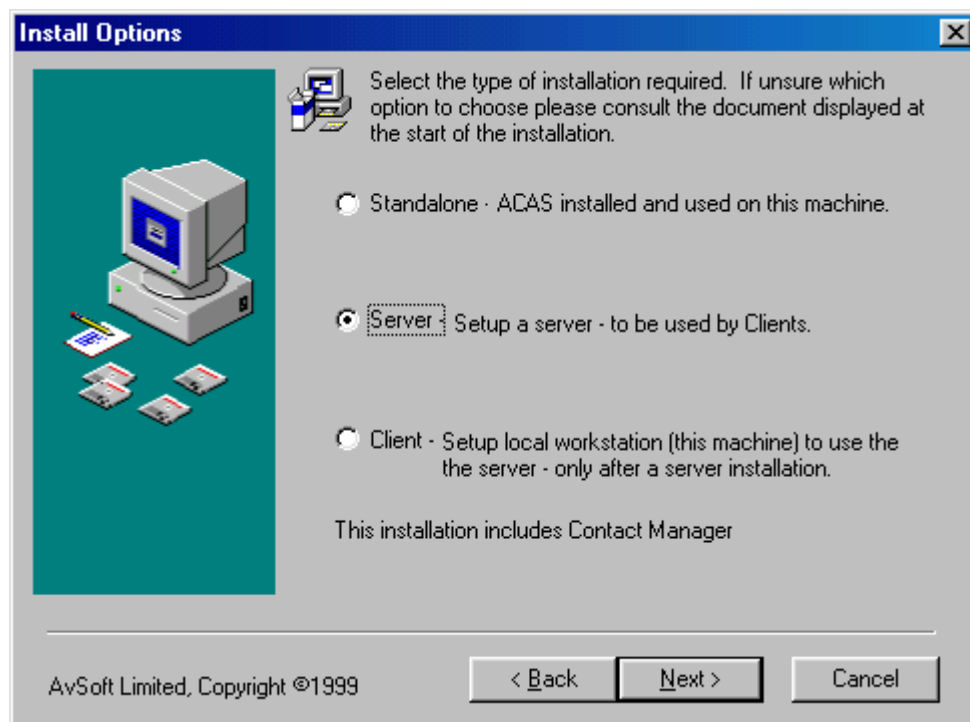
Choose "Server" option from the above screen. Again, make sure you are not doing this at your server. Click on next.
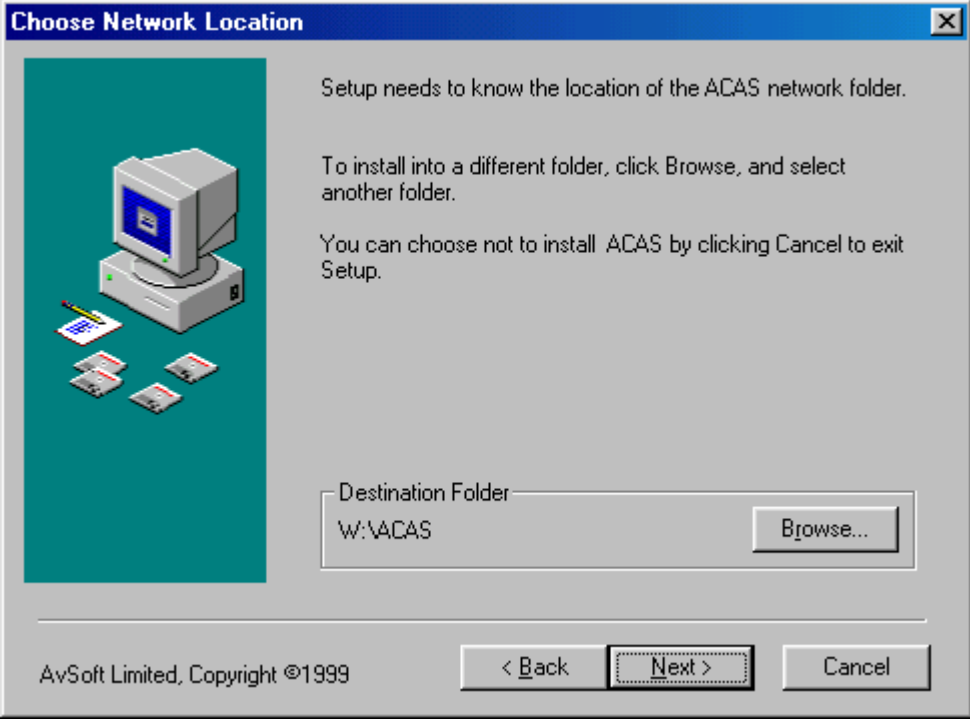
Enter your company details, your ACAS licence number, date format and paper size. The date format in Europe, for example, is denoted as 31/01/01 whereas in North America it would be 01/31/01. Select your date format.

Then select your paper size - Europe typically uses A4 and North America uses US Letter - and click on Next.

Choose a location on the network where you want to install ACAS. Ideally, this same drive mapping has to be seen by all the ACAS users on the network[4]. Click on the browse button; pick a folder or type in a new path. Press OK. As an example, here we are installing it to W:\ACAS. Drive "W" is an existing shared drive on our network. Click on next.
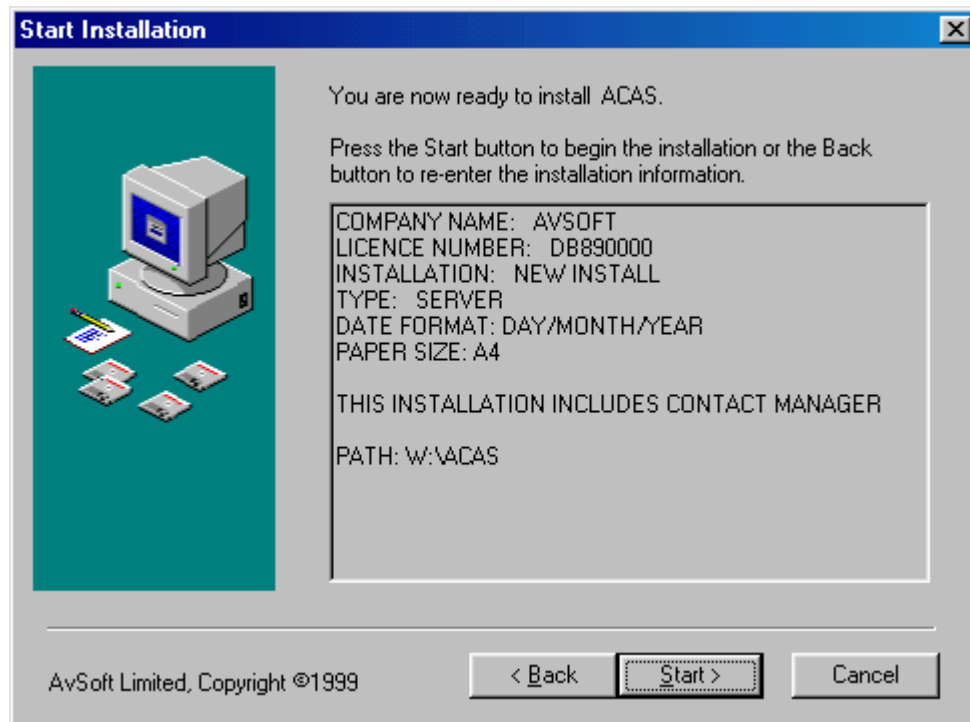
This is a summary of your installation options. Check them. If any are wrong, go back. Otherwise click on Start to begin installing.

User rights

Before you can give your users ACAS on their desktops, you have to set up their user rights first. The easiest way to do this is to create a new user group and add your ACAS users into it. Then the user group must be given read access to the ACAS folder. Full access must given to the ACASRITE and CONTMAN folders which can be found in the ACAS folder.

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[4] If not, please refer to "Notes" after the "Performing Update" section.
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Client Installation

A client installation is required for every user workstation. The installation can be performed in one of two ways:

1. Running Local.exe from the CONTMAN subdirectory (<u>recommended</u>). This option is useful for workstations with no CD-ROM. It is also easier to share one file on a network rather than one CD.
2. By running the Setup.exe on the CD-ROM.

Using Local.Exe

Sit down at the PC you wish to perform a client installation on. Open up the ACAS folder on the network through Windows Explorer. Go to the CONTMAN directory. Find LOCAL.EXE and run it. Click on "next" twice. Optionally click on browse to locate a previously installed ACAS network folder.
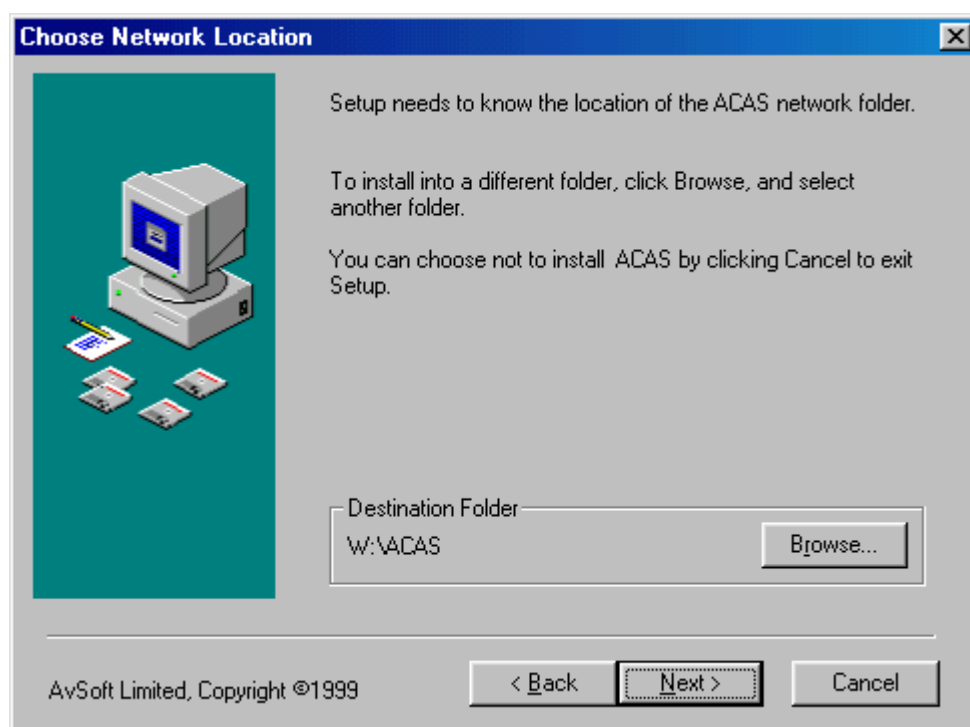
Click on Next. Select a location on your hard drive to install client files to. The default folder is c:\acaslocal. Click on Next and then Start.

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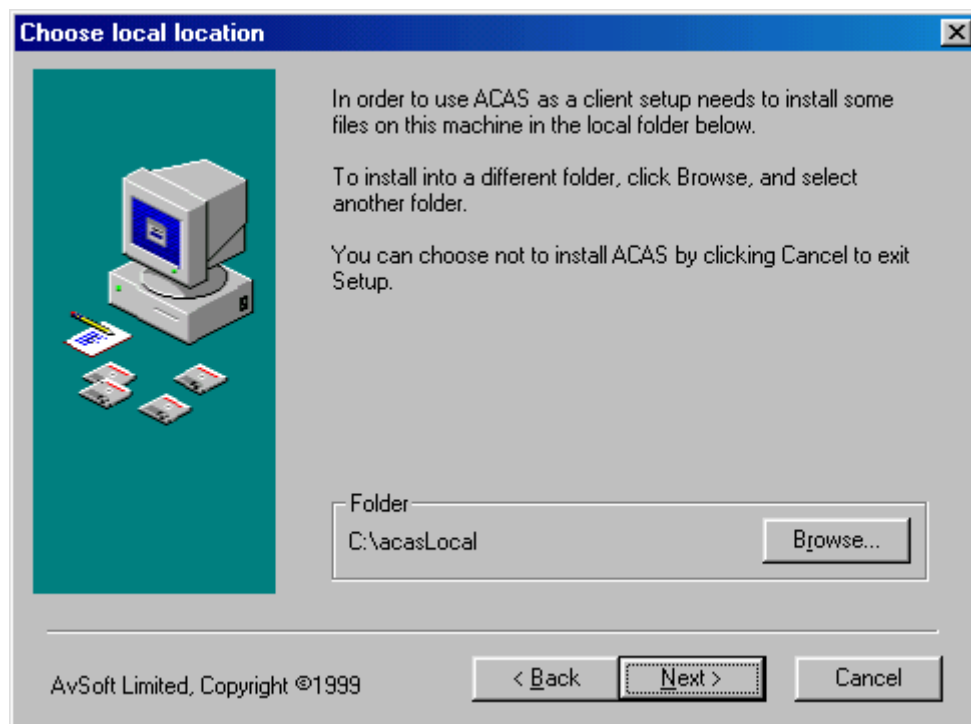
When completed, the shortcuts to **ACAS** and CONTACT MANAGER will now be created on the desktop and in the Start Menu. This procedure only needs to be done once, as the workstation will update its own Contact Manager files when the server update procedure is performed.

Using Setup.exe

Follow the same step-by-step setup procedure described as before when using a "New Installation", except choose the "Client" option. When asked, choose the network location of ACAS and click on next. Choose the local folder to install on your hard drive. Proceed and install the files onto the client PC.

Update Installation Instructions[5]

ACAS network updates **should not be installed from the server** and instead should be done from a normal workstation. This will allow the ACAS configuration settings to be the same for every user workstation across the network.

Sit down at your workstation. Use correct user rights to be able to install the application to the network.

Now insert the CD into the drive. It should automatically start the setup program. If not, run setup.exe from the CD.

You should see the screen below. Click on Next
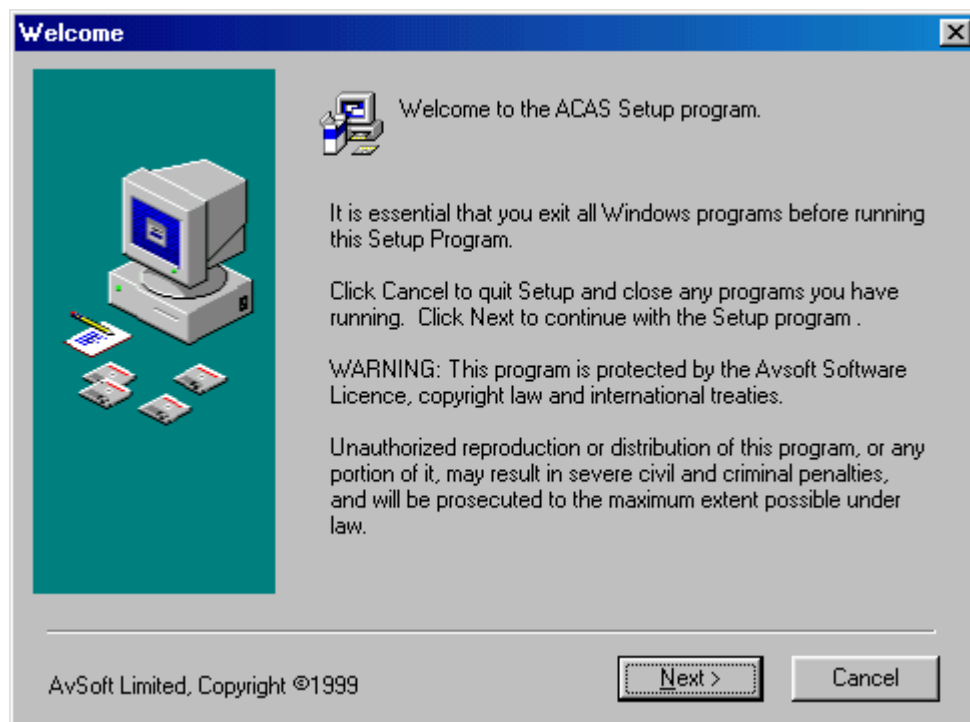
Choose Update and make sure "Include Contact Manager" box is checked (below). Click on Next.
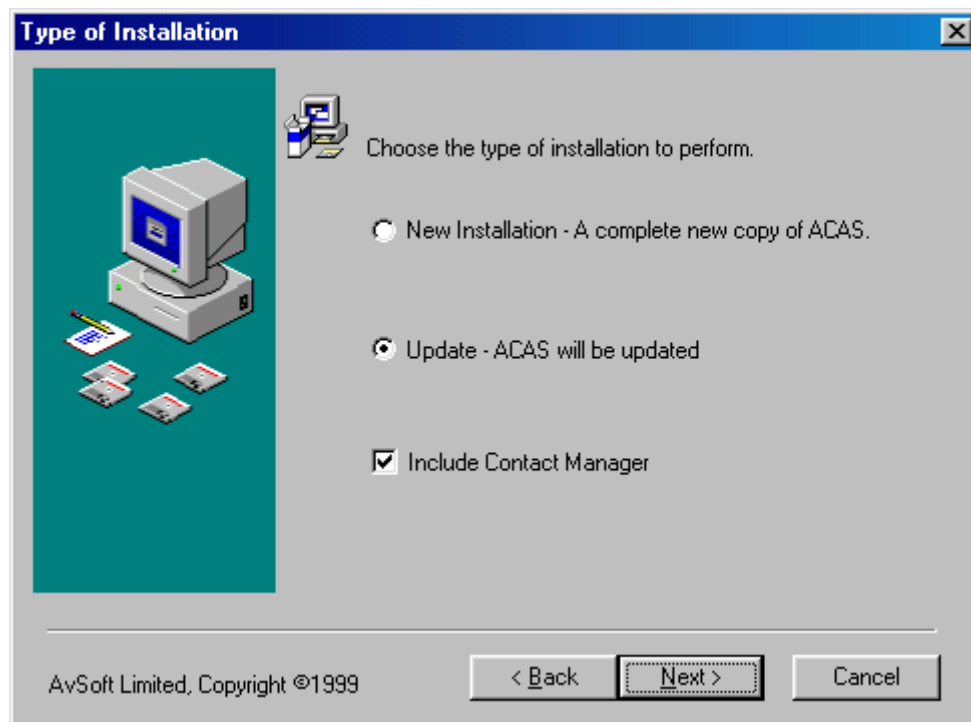
Choose Server and click on Next (below).
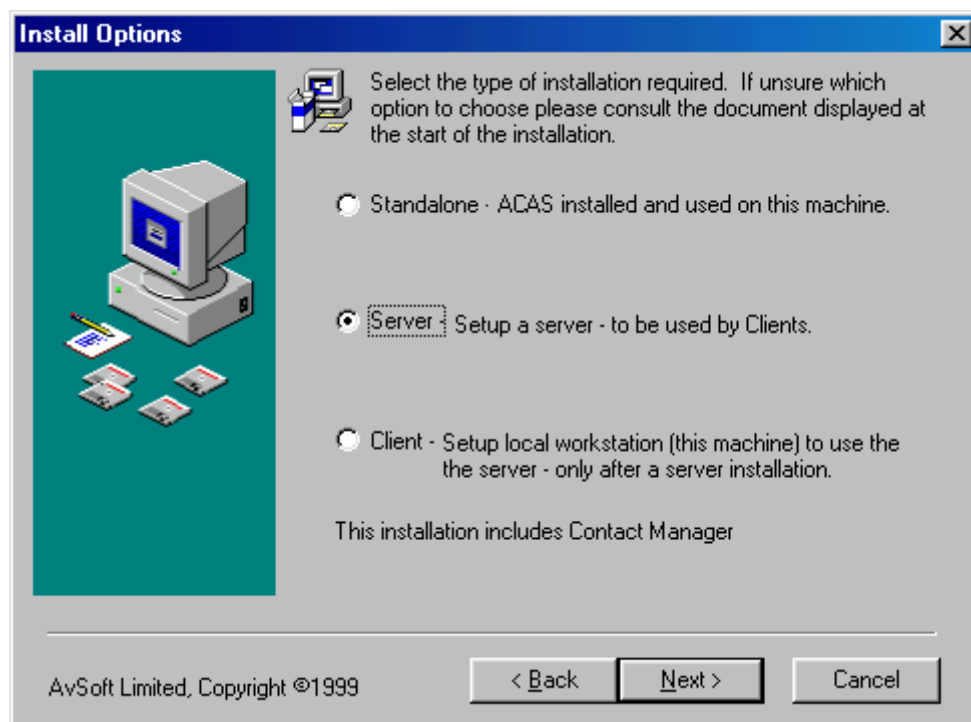
Verify that your paper size is correct. Click on Next.
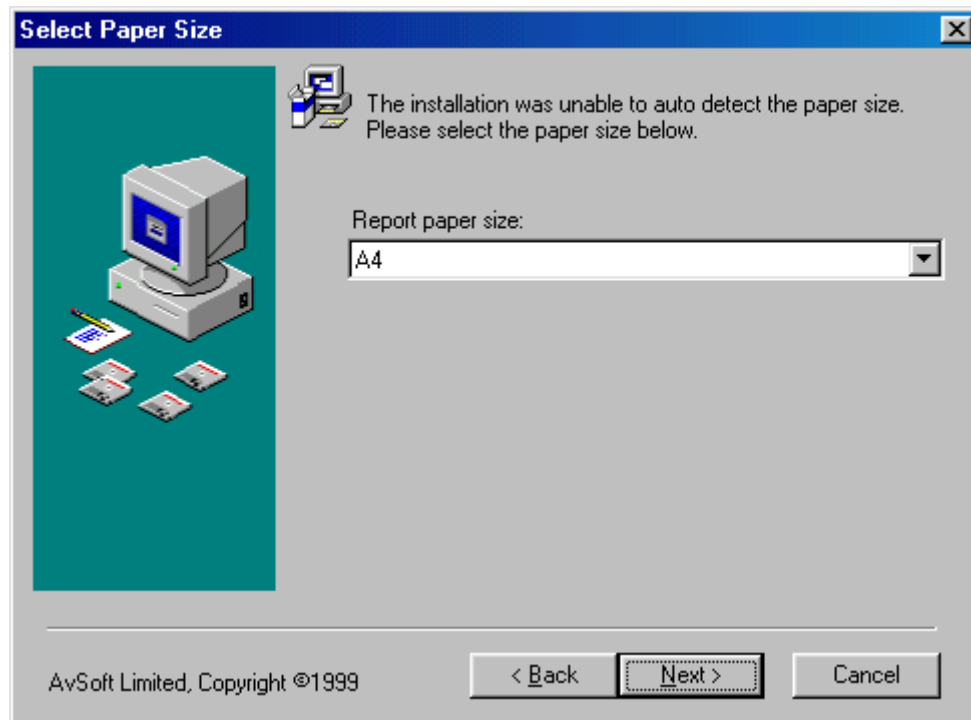
Verify that you are installing the update files to the correct location on the network. If the path is wrong, click on browse and choose the correct location. Click on Next. (below)
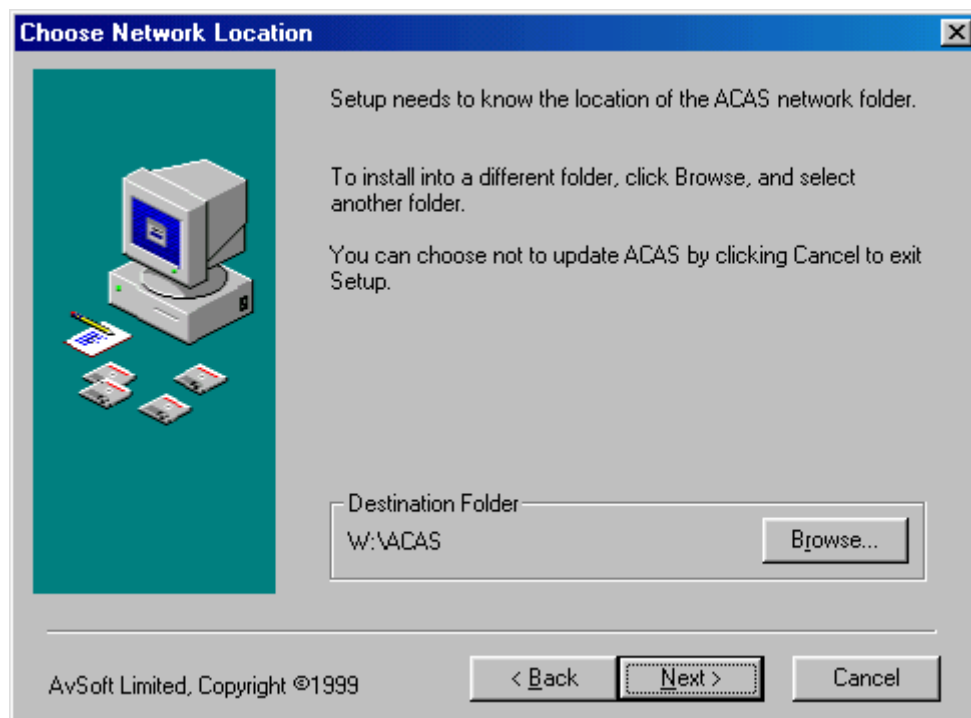
The screen below gives a summary of your installation options. Check them. If any are wrong, go back, otherwise click on start to begin installing.
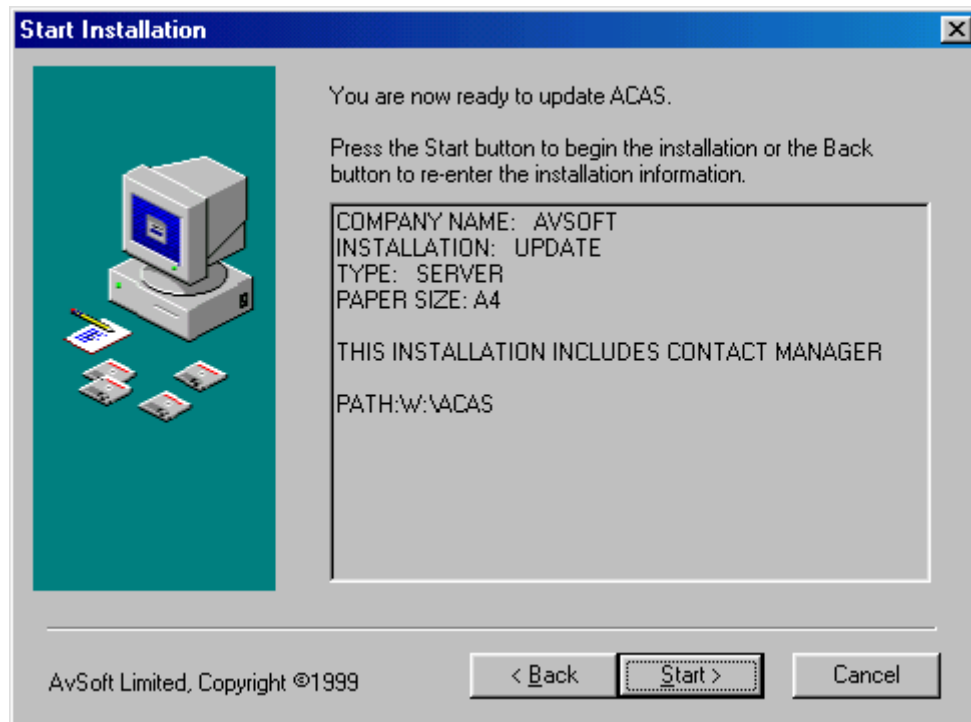
Notes

- The <u>client</u> update is performed automatically as the workstation will update its own data files when the server update procedure is successfully performed.

- If you miss an update, use the latest CD you have. For example, if you have a January version of ACAS installed and my latest CD is for April, use the April CD to update ACAS.

- Please also check that a file called CONFIG.FPW in the ACAS directory contains the correct path and default directory for your mapped user drive. For users who are logging into *ACAS* from a different drive, this will cause problems. If, for any reason, you cannot use the same drive letter as the ACAS directory on the server, do the following:

- Create a directory called ACASCFG on the C drive on your local PC

- Open the *ACAS* directory on the Server and copy the File called CONFIG.FPW to the ACASCFG directory

- In Windows Explorer, open the ACASCFG directory, double-click the CONFIG.FPW file and select NOTEPAD to open it. Change the drive letter on the last two lines in the file to the drive letter you require and then close the file and save the changes.

- Exit Explorer and right-click on the *ACAS* icon and then click on Properties.

- In the statement that contains "ACAS.EXE -T", remove the "-T" and add the following to the end of the statement: " -CC:\ACASCFG\CONFIG.FPW"

Starting ACAS

You are now ready to start **ACAS** - double-click on the **ACAS** icon and a Screen with your Company Name will appear followed by the Main Menu
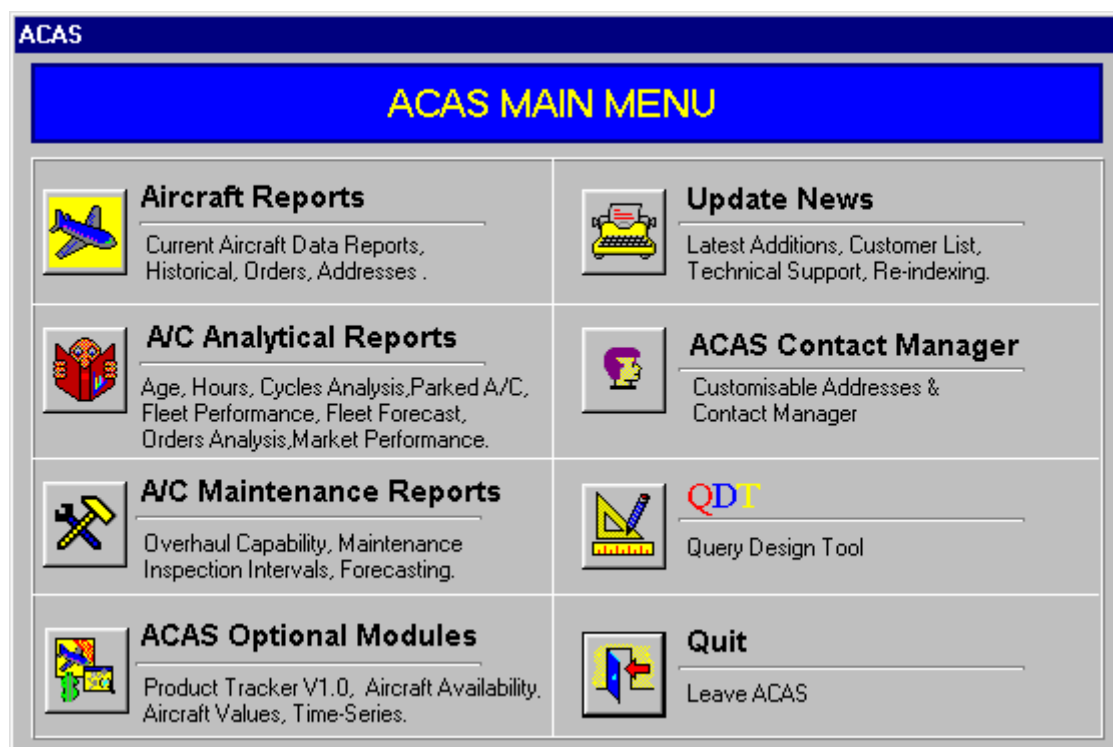
Menu Selections

Introduction

ACAS for Windows Version 2.5 contains 7 information areas - Update News, Contact Manager, Aircraft Reports (which will provide much of your day-to-day reporting needs), A/C Analytical Reports, Maintenance Reports, QDT and the Optional Modules Menu.

Aircraft Reports contains Current and Historical fleet reports plus reports on Aircraft Orders, Lease Ends and Operator Head Office and Maintenance facility addresses plus legal owner addresses.

A/C Analytical Reports contains Age, Flying Hours and Cycles Analysis Reports plus 25 Year Age Analysis, Airframe and Engine Manufacturer Orders Analysis reports, Aircraft Market, Airframe and Engine Manufacturer and Fleet Performance reports and Parked Aircraft reports, Fleet/Utilisation Forecasts and Aircraft Trends.

Maintenance Reports contains Inspection Intervals, Engine/APU Shop Visit Rates, Overhaul Capability Reports and Maintenance Forecasts (Component Removals and Airframe Checks).
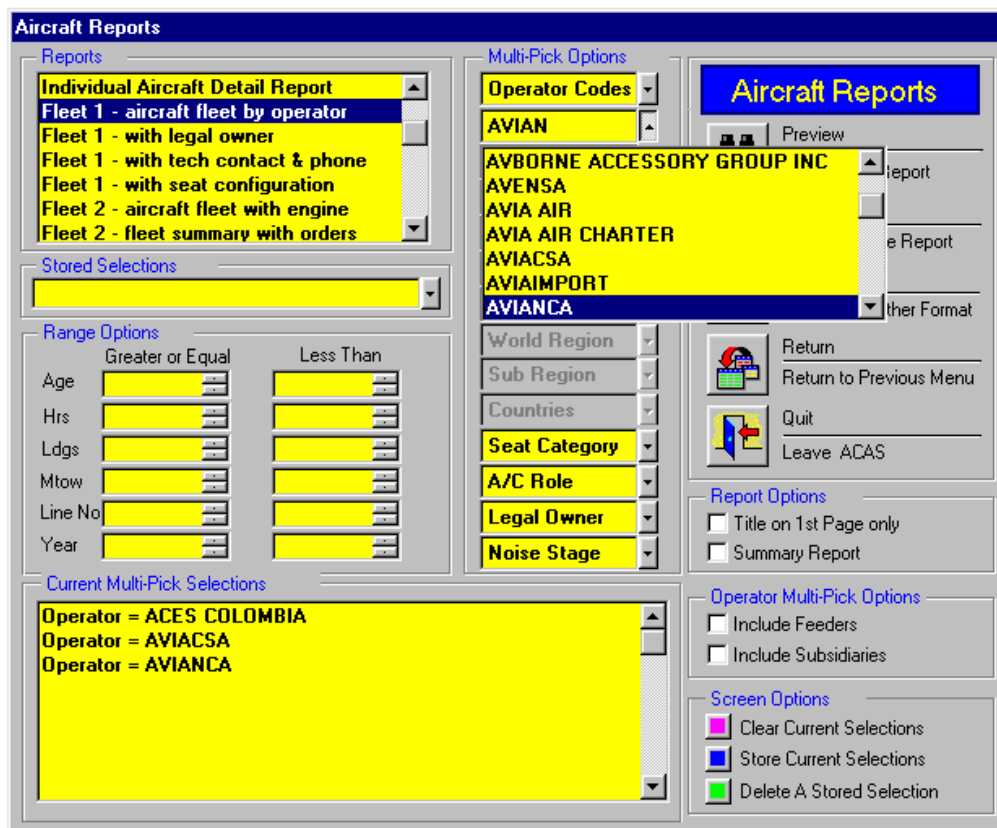
QDT - a program designed to allow you to make customised queries and reports from either ACAS data files or your own data files or a combination of both.

Version 2.5 Main Menu
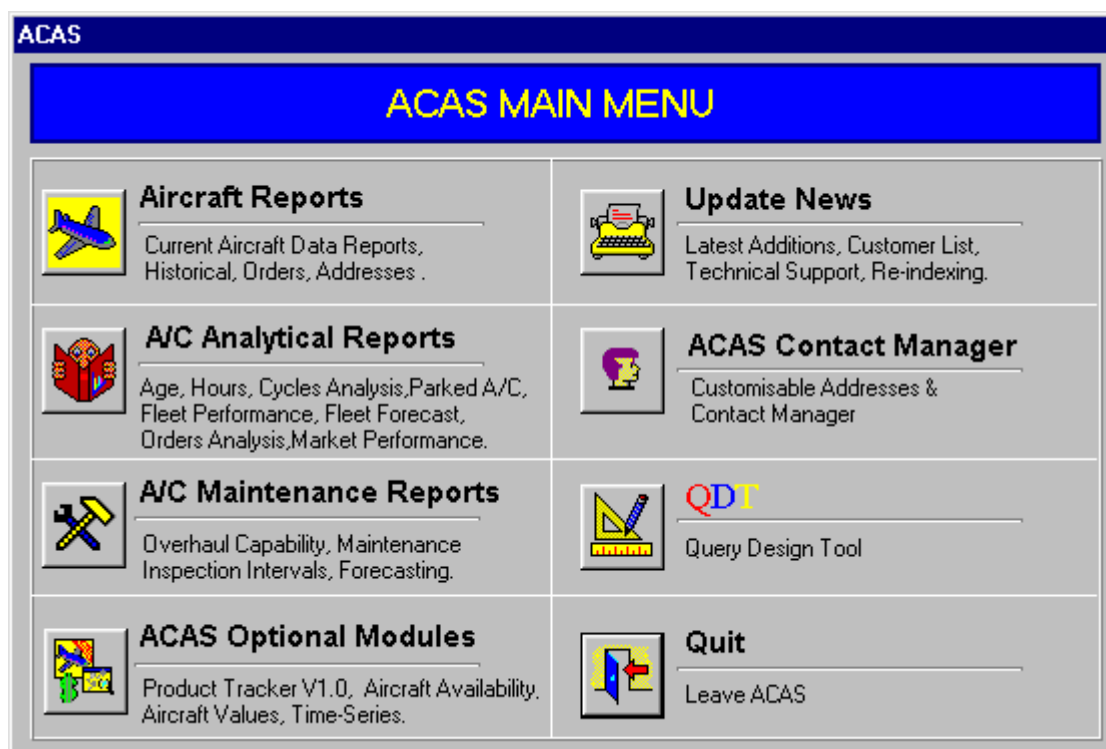
Before You Start – Two Tips to commonly-asked Questions

Closing a Multi-Pick Selection box – **after you have made your selections – just right-click the mouse and the box will close**

To remove one selection from the Current Multi-Pick Selections at the bottom of the screen – just point the mouse to highlight the selection and double-click it!

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Getting Started

Click on Aircraft Reports on the Main Menu - you will then see the screen below

Aircraft Reports

Reports
- **Individual Aircraft Detail Report**
- **Fleet 1 - aircraft fleet by operator**
- **Fleet 1 - with legal owner**
- **Fleet 1 - with tech contact & phone**
- **Fleet 1 - with seat configuration**
- **Fleet 2 - aircraft fleet with engine**
- **Fleet 2 - fleet summary with orders**

Stored Selections

Range Options

	Greater or Equal	Less Than
Age		
Hrs		
Ldgs		
Mtow		
Line No		
Year		

Current Multi-Pick Selections

Multi-Pick Options
- **Operator Codes**
- **Operators**
- **A/C Type**
- **A/C Model**
- **A/C Maker**
- **Engine Maker**
- **Engines**
- **World Region**
- **Sub Region**
- **Countries**
- **Seat Category**
- **A/C Role**
- **Legal Owner**
- **Noise Stage**

Aircraft Reports

Preview
- Preview the Report

Print
- Print or File the Report

Export
- Export to Another Format

Return
- Return to Previous Menu

Quit
- Leave ACAS

Report Options
- ☐ Title on 1st Page only
- ☐ Summary Report

Operator Multi-Pick Options
- ☐ Include Feeders
- ☐ Include Subsidiaries
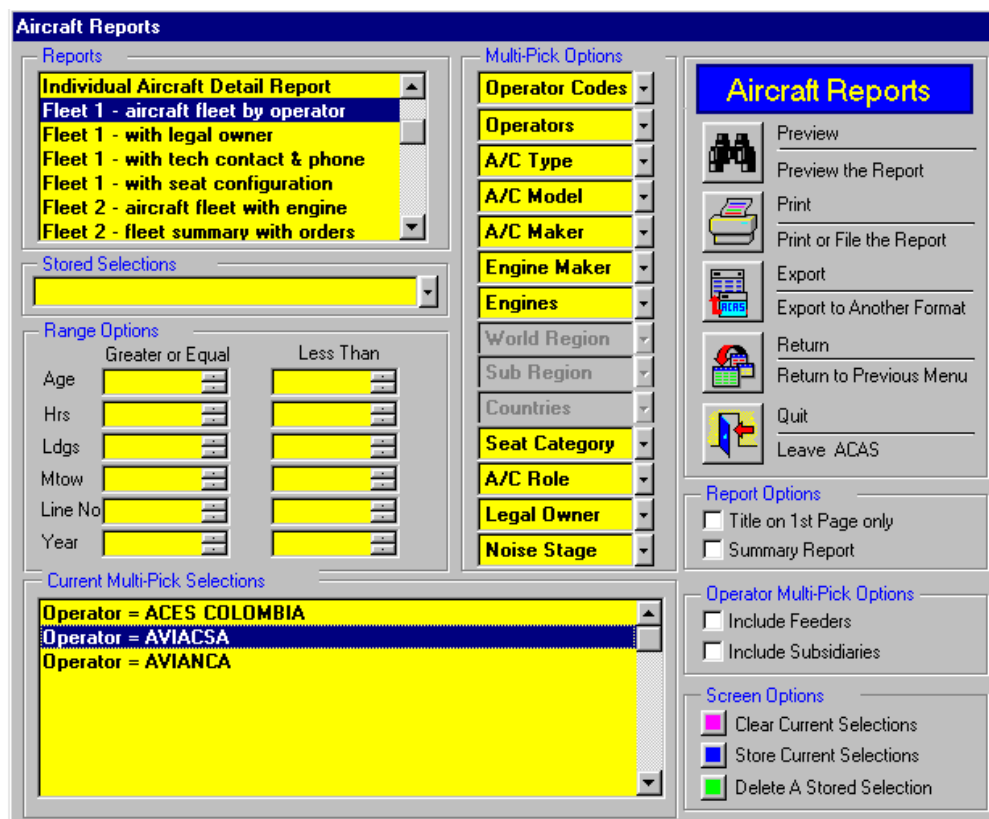
Screen Options
- ■ Clear Current Selections
- ■ Store Current Selections
- ■ Delete A Stored Selection

Overview of Making a Report

‣ Select your Multi-Pick options - Click on your choice (for example Type) select from the list or type the name or numbers (for example: 737) and then click the selection(s) (right-click the mouse or click the up arrow to close the box) any number of aircraft types or engine types or world regions can be selected for one report (which will be added to the Multi-Pick Selection List) and optionally Range & Report Options;

‣ Select a Report from the Reports List

‣ Select Preview for Screen output or Printer or Export for a file format of your choice

‣ By default the Report will produce details for each aircraft; to produce a Summary Report, click on Summary Report in Report Options

‣ To increase the amount of data on subsequent pages of a Report, select Title on 1st Page Only in Report Options - especially useful when you have made many Multi-Pick selections

‣ Optionally save the selections by clicking on Store Current selections

‣ **If you want to remove a selection from the Current Multi-Pick Selections, just Double-Click it**

‣ To retrieve stored selections, click on Stored Selections and click on the appropriate name

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Getting Started (continued)

Include Airline Feeders

The A/C Reports Screen includes check boxes to select Feeders and/or Subsidiaries - in the example below, the Feeder Airlines for Delta Air Lines are automatically included in Current Multi-Pick Selections when you select Delta Air Lines from the Operator list and check "include Feeders" under Operator Multi-Pick Options.

Where you see an operator with a * preceding it, this denotes that only part of that operators fleet is operating as a feeder to the main airline.

Include Airline Subsidiaries

Click on the "include Subsidiaries" checkbox to include those operators which are owned by the selected airline.

Getting Started (continued)

Airline Alliances

To select the airline partners which are part of an Alliance (e.g. OneWorld or Star Alliance), select the name from the operator list - in this case: ONEWORLD, and all the participating airlines appear in the Current Multi-Pick Selections box.

Getting Started (continued)

Preferences - Operator Lists

When you click on Operator in any screen, by default you will see a list of operators which does NOT include Business Jet Operators. To select a list of Operators which contains Business Jet Operator names:

on the top Menu bar, Click on Preferences, then select Operator Lists and then Business Jets

The Business Jet operator name list will then remain as the default list for the rest of the session. To change to All Other Operators, Click on Preferences again and select All Other Operators
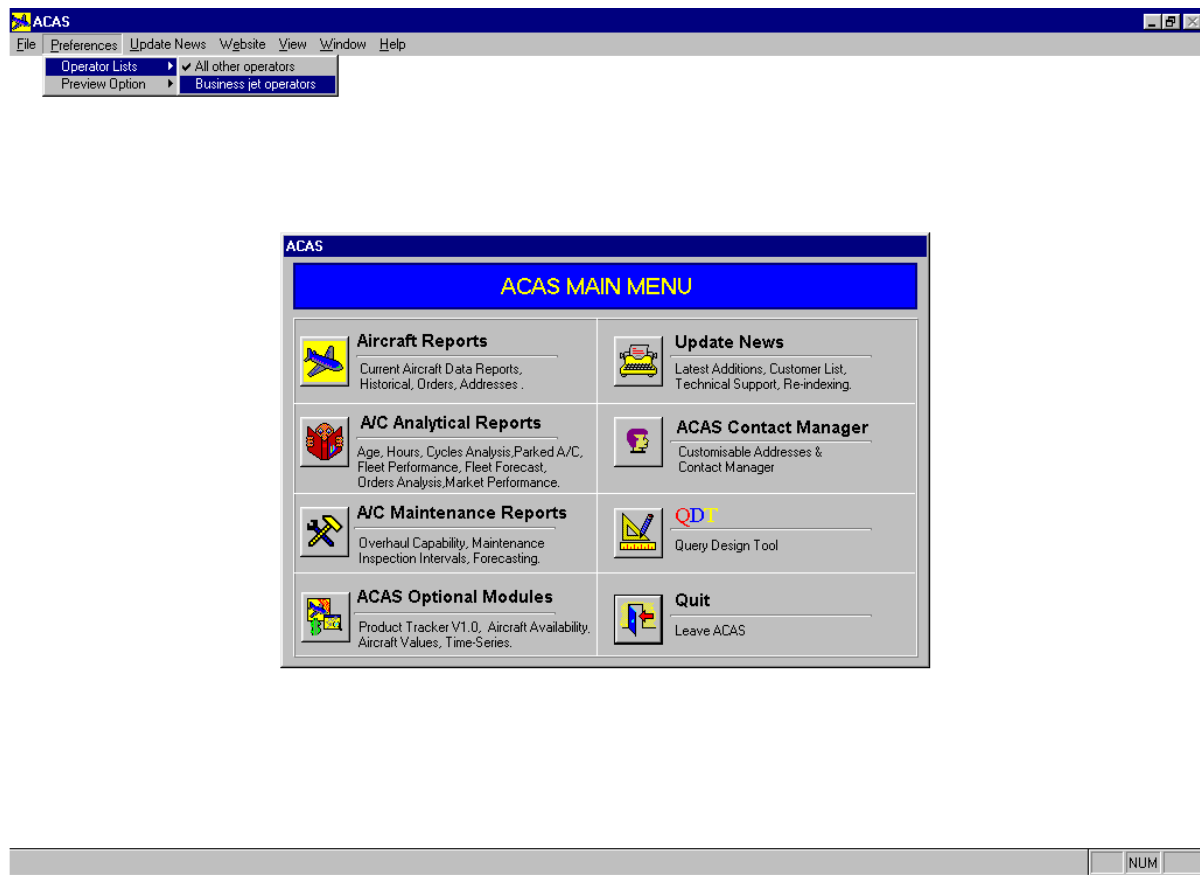
Preferences - Screen Report Options

● If you would prefer to Browse a Report on the Screen (similar in format to a spreadsheet), rather than see the Preview of the Printed Report, click on Preferences on the top menu bar, select Preview Options and then Browse
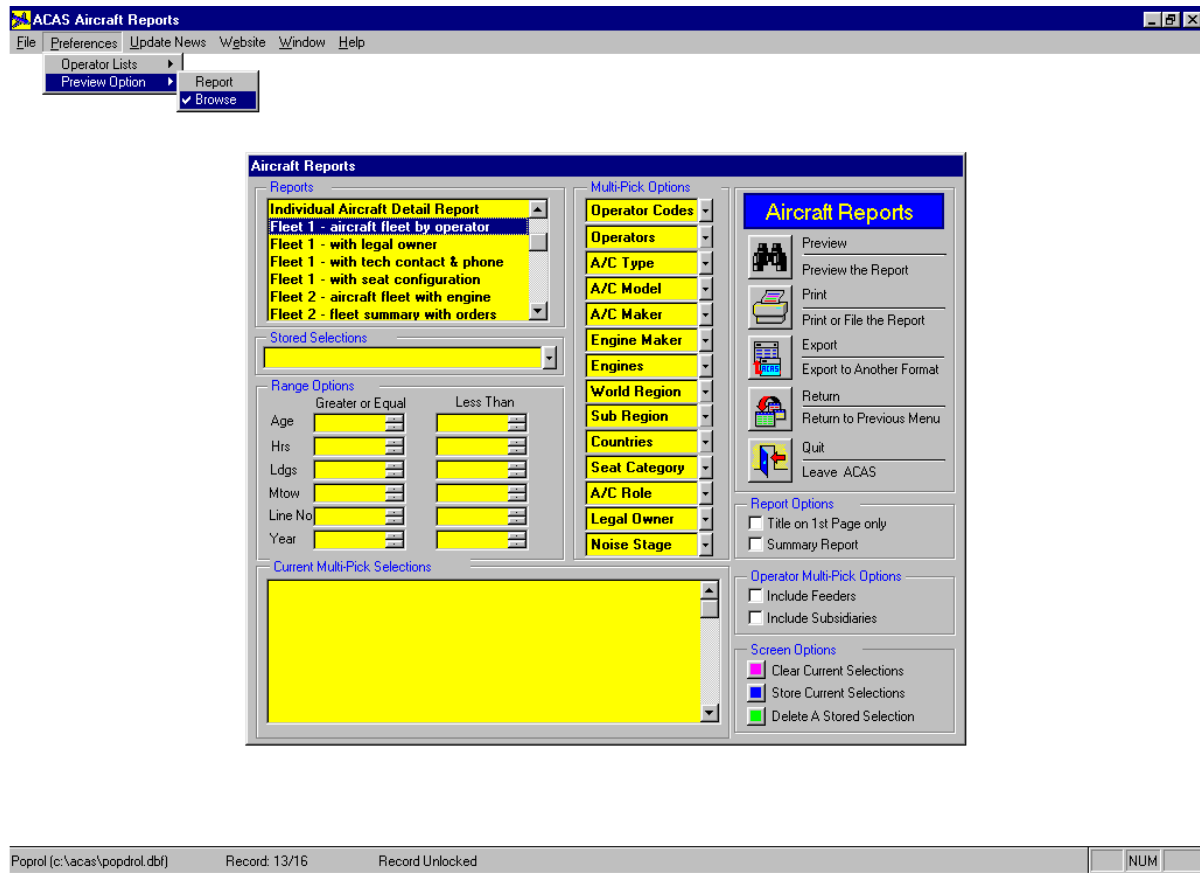
Operator Selection Options - Include Feeders & Subsidiaries

If you would like to include feeders and subsidiaries of the selected airline, click on the relevant button under Operator Multi-Pick Options.

Airline Alliances

Member airlines of Airline Alliances (e.g. Star Alliance) can be selected at one time by selecting the appropriate alliance name in the Operator list under Multi-Pick Options

Website – Daily Update on Aircraft Orders

The Website is updated daily with all the news on the latest aircraft orders, to keep you right up to date in between the monthly ACAS update - just click on Website on the top menu bar, then select Latest Orders and our Website page containing the orders will appear automatically.
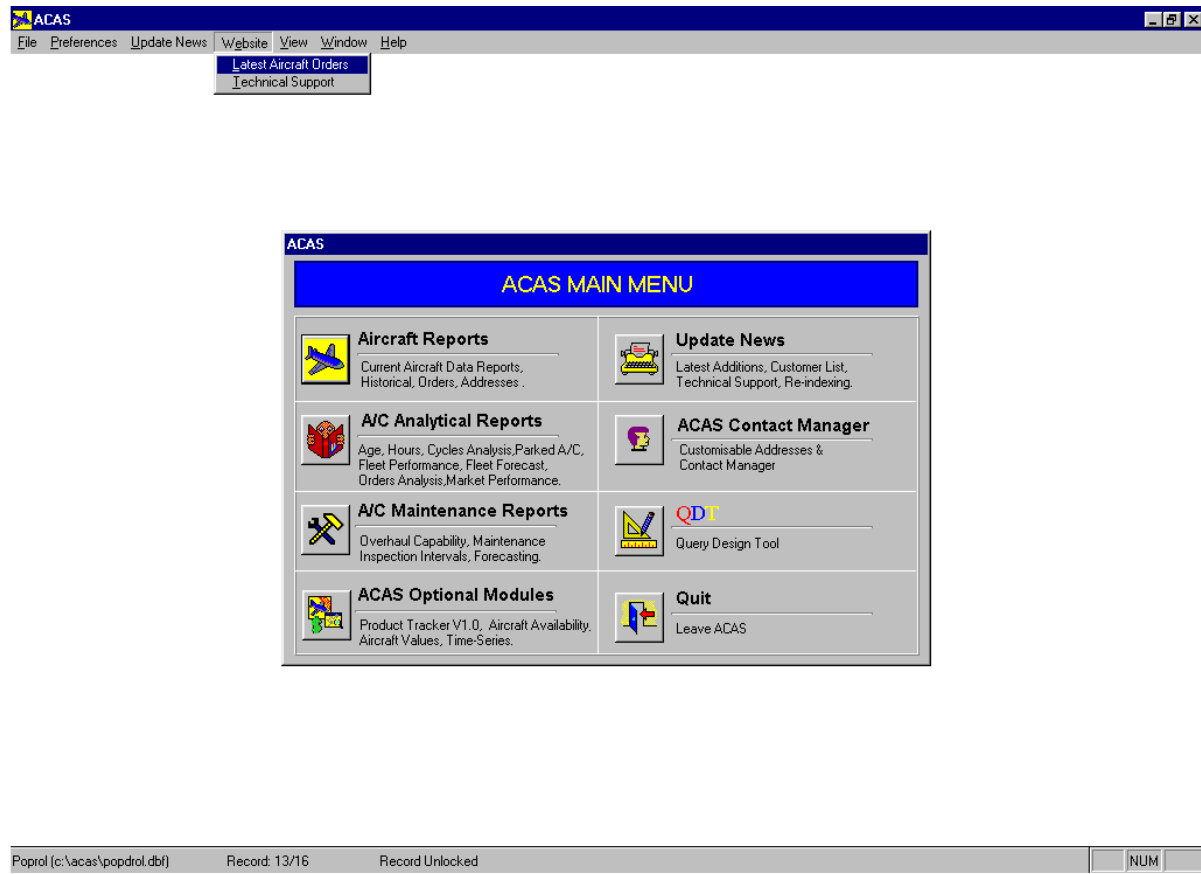
ACAS Tutorial

In order to familiarise you with ACAS, some examples of how to make reports from a
selection of programs available within the Aircraft Reports, Analytical Reports and
Aircraft Maintenance Menus are enclosed. Help with QDT, Contact Manager and
Optional Modules is contained within their respective tabs.

Contents   Page

ACAS Help

NOTE: to access HELP for on-line assistance at any time in any menu, select HELP on the top menu bar:
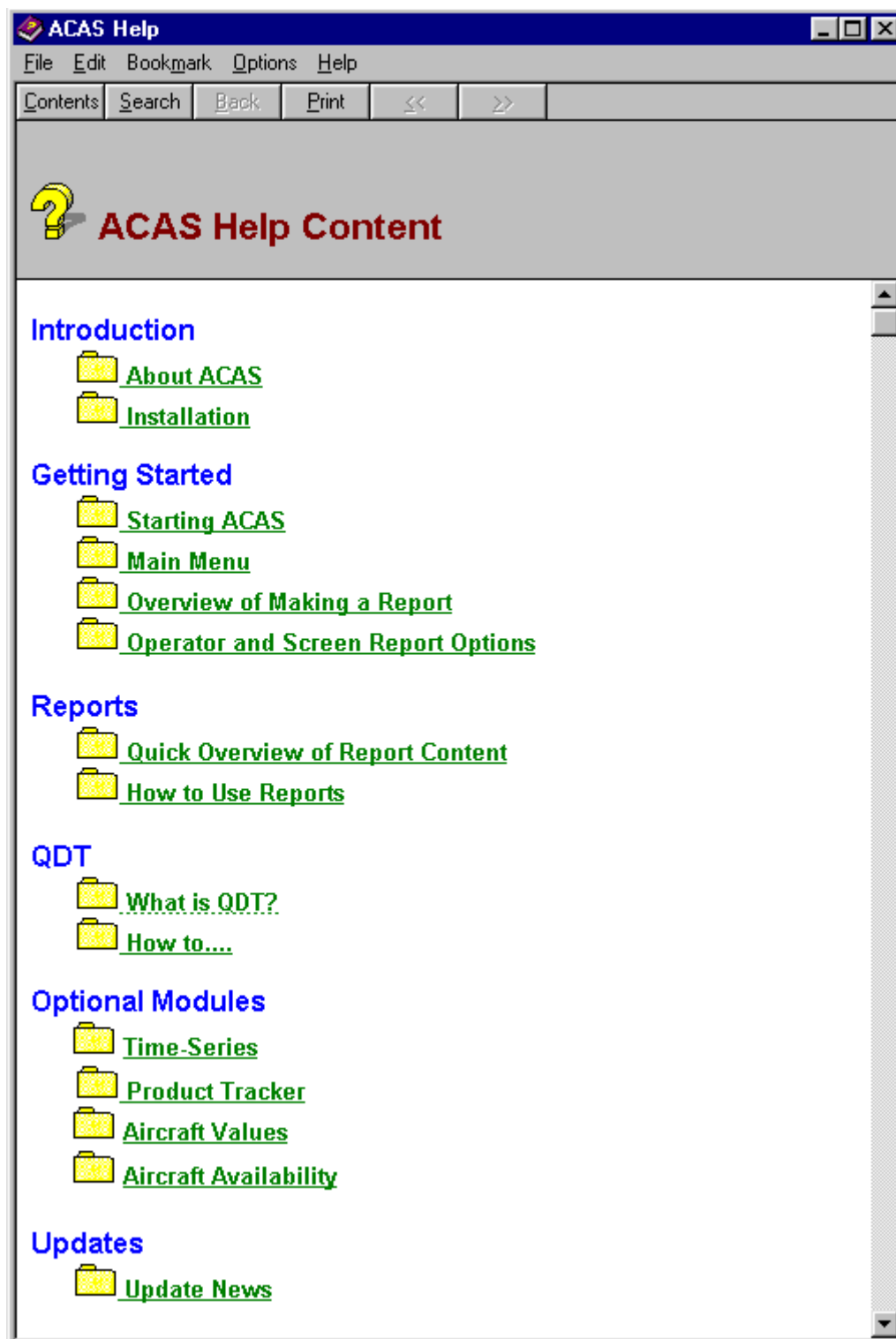
Aircraft Reports Menu

Individual Aircraft Report

● You would like to know the current status of an aircraft, including maintenance arrangements, contact addresses, ownership/lease status & historical transactions

Selecting a Range of Aircraft

‣ To select a number of A319 serial numbers (for example), click on Type in Multi-Pick Options and select A319.

‣ A list of all current A319 serial numbers will then appear under Selections in the right-hand lower box; scroll down the list and either highlight each serial number which you require and click on Add to transfer it to the In-Report list or simply Double-Click it.

‣ By default all three pages will be presented, optionally select individual pages

‣ When you have completed your selection of aircraft, click on Preview or Print.

‣ (To select both current and retired/destroyed aircraft, click on Include Destroyed or Retired Aircraft under Report Options. If you select a retired or destroyed aircraft, a one-page report will be produced, showing only the history of the aircraft.)

Selecting an Individual Aircraft

‣ Click on OR Select by Serial or Registration and then click on the Serial or Registration box and type the first few characters.

‣ In the example below, typing 26 in the Serial Number box presents a list of Serial Numbers in the Selections box beginning with 26.

‣ Scroll down the list and select the serial number by double-clicking the serial number to add it to the In Report list or click on it once to highlight it and then click on Add. Alternatively type in the complete serial number in the Serial Number box and then click on Add.

‣ Then click on Preview or Print.

‣ For a list of aircraft registrations beginning with G-, for example, type in G- in the Registration box and select from the list in the Selections box as above.

Addresses

ACAS provides two methods of accessing addresses and contacts – one which is customisable called Contact Manager – the main features of which are presented in the Contact Manager section beginning on Page 41 and another which is not customisable contained in the Aircraft Reports Menu and described in subsequent pages.

■ *Addresses (Aircraft Reports Menu)*

Quick Reference Address Book

● to quickly access the name of the Chief Executive (or other contacts) and address/telephone/fax/SITA/ARINC numbers, just click on Quick Reference Address Book in the Reports list and select the appropriate tab (Head Office/Maintenance Facility/Legal Owner) and then select the operator (either by typing the first few letters or scrolling the list or clicking the alphabet list on the left); the details will then be shown on the right of the screen

ACAS Quick Reference Address Book

Alphabet list	Operator list	Details
A B C D E F G H I J K L M N O P Q R S T U V W XYZ	AAR ALLEN AIRMOTIVE AAR CORP AAR ENGINE COMPONENT SERVICE AAR LANDING GEAR CENTER AAR OKLAHOMA AAR TECHNICAL SERVICE CENTER ABBOT LABORATORIES ABCO AVIATION ABCO LEASING ABEX NWL AEROSPACE ABOITIZ AIR TRANSPORT ABU DHABI AVIATION ABX AIR ACE ACES COLOMBIA ADA AIR ADC AIRLINES ADLAIR AVIATION ADRIA AIRWAYS	Contact: Contact Name 1 Operator: 102AB INC Name: Title: Address: 1013 CENTRE ROAD WILMINGTON DE 19890 Country: USA Region: N.AMERICA Phone 1: Phone 2: Fax 1: Fax 2: SITA: IATA:

Head Office   **Maintenance** ■
Legal Owner

PRINT   RETURN   QUIT

Aircraft Reports Menu

Operator Maintenance Addresses

● You would like to mailshot the VP Maintenance of all 777 operators in Europe and the Pacific Rim

‣ select Operator Maintenance Addresses in the Reports List

‣ click on Type under Multi-Pick and select 777 - either by typing in 777 or scrolling the list and clicking on 777; A/C Type=777 will then appear in the Current Multi-Pick Selections box

‣ then click on World Region and click on A - Europe including CIS

‣ then click on World Region and click on E - Pacific Rim

‣ then click on Job Title and click on VP Maintenance

‣ then click on Address Label and click on the appropriate label

the screen will now look like this:

‣ now click on Preview or Print

‣ **NOTE: if you have purchased the Product Tracker Version 1.0 Module, you can mailshot operators of aircraft or engines which have your product(s) fitted!**

‣ if you would also like to create a mailmerge file to use in your word processor, with the same selections on the screen, click on Export

‣ Select the appropriate file type for your Word Processor software (usually a .DBF file) from Export to File Type

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Aircraft Reports Menu

■ *Addresses* (continued)

The screen will now look like this:
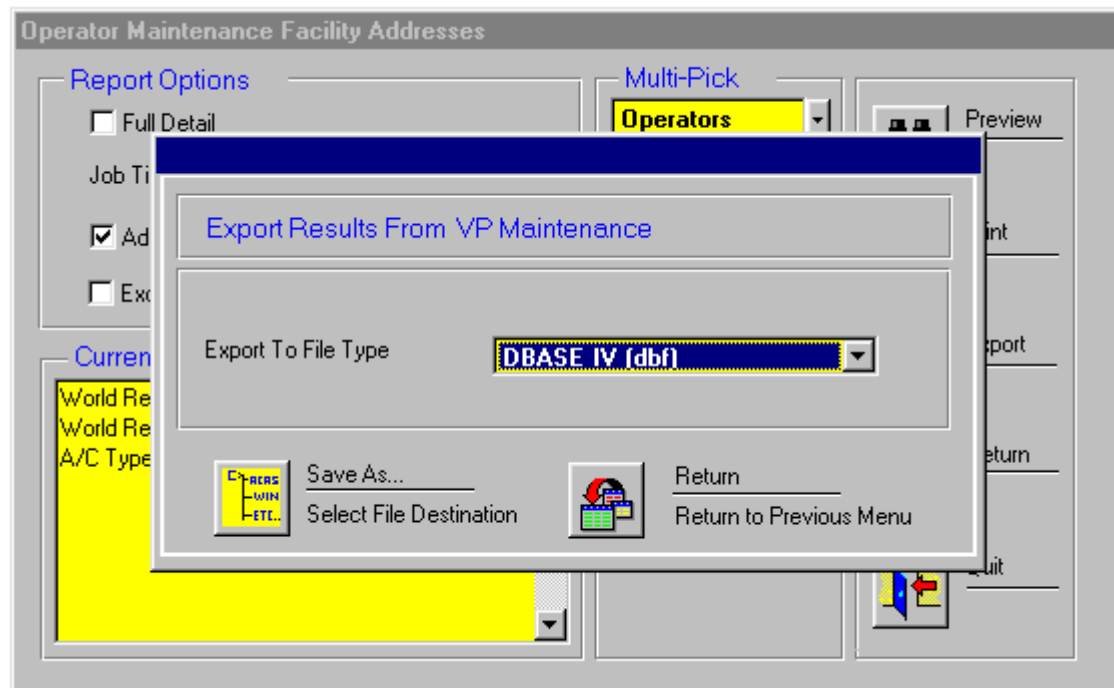
‣ then click on Save As - select your destination directory and optionally change the file name from export.dbf to one more relevant to the file contents

the screen will now look like this:
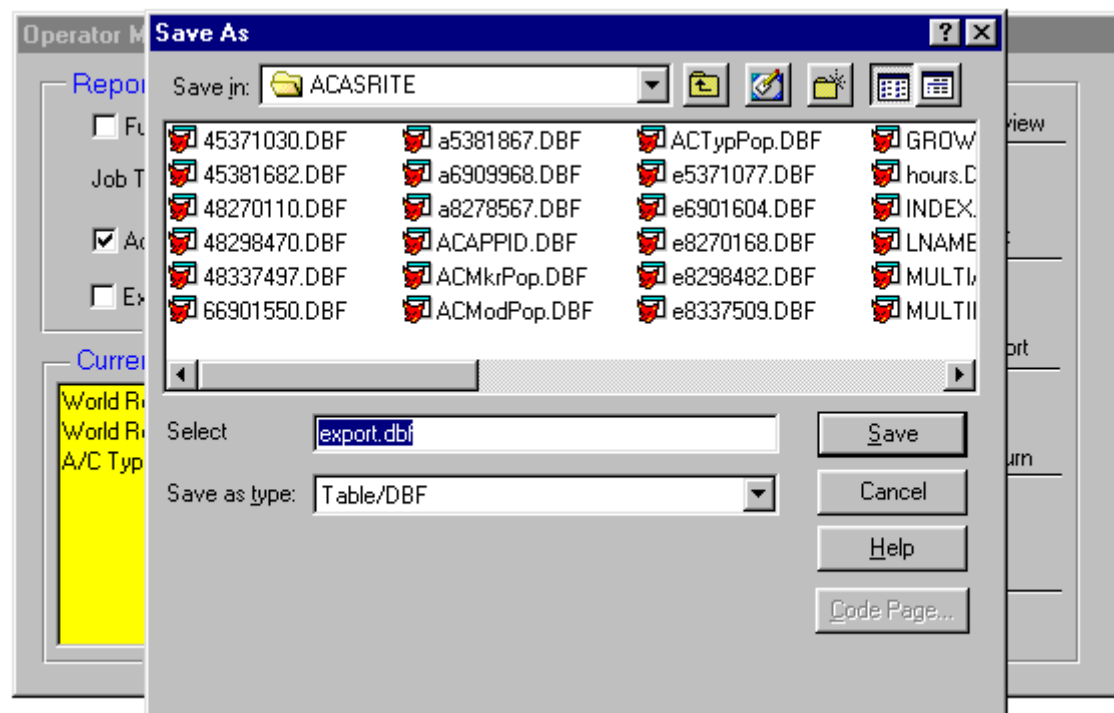
‣ Click on Save and test.dbf will be created!

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Fleet Reports

Fleet Report 1 - Summary Report

● You would like a Report on operators of ATR72, 146 and 777 in Europe and North America just giving you details of how many aircraft of each type they have.

‣ under Multi-Pick options, click on Type and either type ATR or click the down arrow to select ATR72. When ATR72 is highlighted, click it or press Return.

A/C Type=ATR72 will then appear in the Current Multi-Pick Selections Box

‣ Repeat the process to select the 146 and 777 aircraft types

‣ Then click on World Region and select A - Europe including CIS by clicking on it.

‣ Repeat for North America

‣ Next click on Fleet Report 1 under Reports

‣ Next check the Summary Report Box - the screen will now look like this:

‣ Next Click on Preview

The screen will then present the first page of the Report - click on the Print button to print it

Fleet Reports (continued)

Fleet Report 1 - Detailed Report

●If you would like the details of the serial number and tail number of each aircraft, uncheck the Summary Box.

●If you would like the same report on different World Regions, just double-click the existing regions in the Current Multi-Pick Selections to remove them and then select new regions. You dont have to clear all selections.

Exporting Fleet Data

●To Export the data in this Report to say, an Excel spreadsheet, with the above selections still showing, just click on Export

‣ Select Excel (XLS) from Export to File Type

the screen will now look like this:

Aircraft Reports Menu

Fleet Reports (continued)

⁸then click on Save As - select your destination directory and optionally change the file name from export.xls to one more relevant to the file contents

the screen will now look like this:
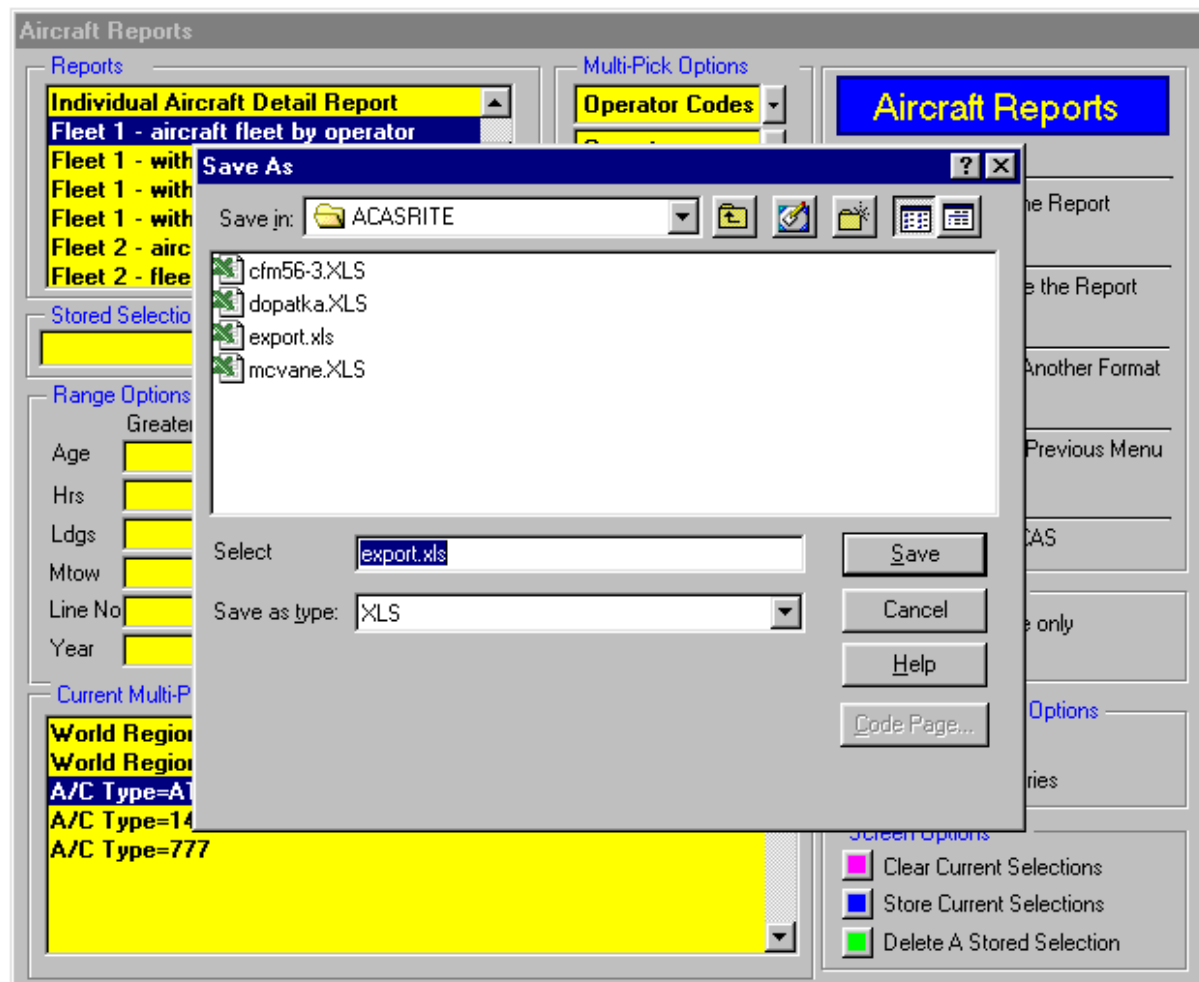
‣ Click on Save and export.xls will be created!

Fleet Reports - Screen Output Options

● If you would prefer to Browse a Report on the Screen, rather than see the Preview of the Printed Report, click on Preferences on the top menu bar, select Preview Options and then Browse
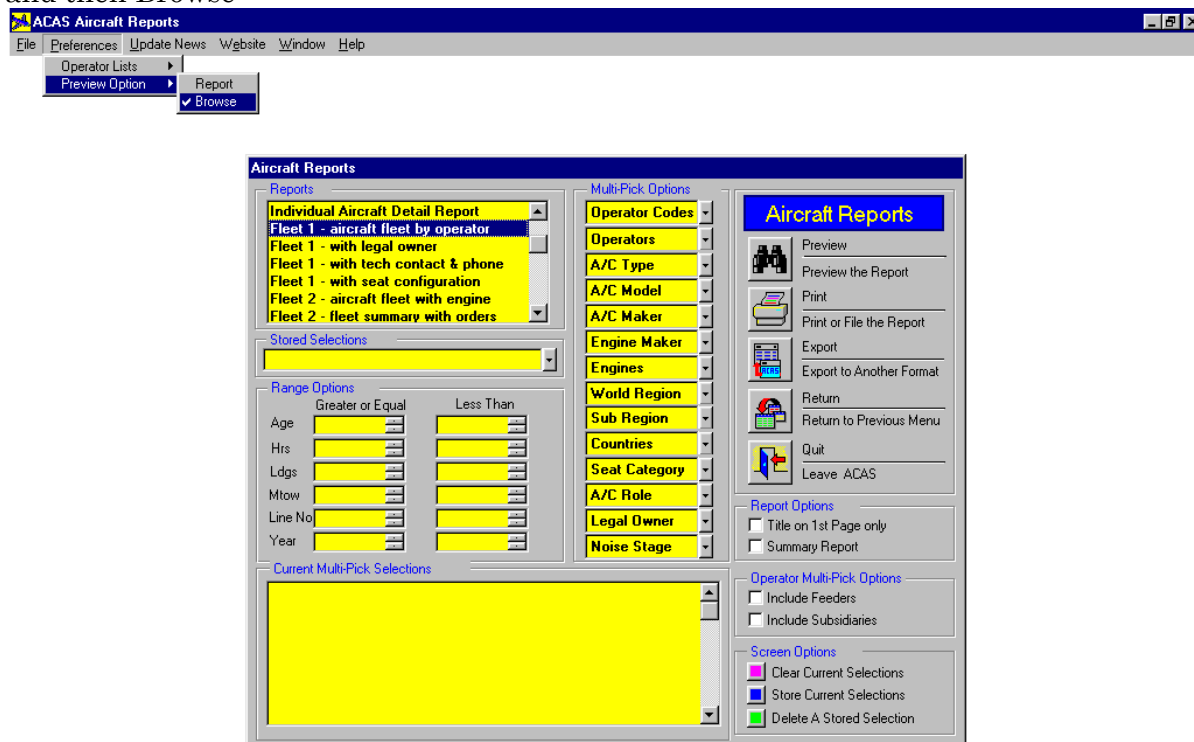
Then click on Preview and a scrollable Browse Screen will appear containing details of for example, 757 aircraft in Europe.

Aircraft Reports Menu

Fleet Reports (continued)

Other Fleet Reports

● *If you would like more detail than the Fleet 1 report*

‣ use Fleet 2 to include the Engine Type and Engine Quantity

‣ use Fleet 2 Fleet Summary with Orders to give a summary of each Operator's Fleet presenting quantities of aircraft broken down by Type, Model & Engine plus any outstanding orders and deliveries

‣ use Fleet 3 to include the Engine Type and Engine Quantity plus Line No, MTOW, delivery dates plus the Last 12 Months Hours and Cycles

‣ use Fleet 4 to include all hours and cycles data since the aircraft originally entered service

‣ use Fleet 5 to include all hours and cycles data since the aircraft entered service with the current operator

‣ use Delivery Sequence Report to include aircraft in delivery date sequence with original and current operator

‣ use Fleet Status Report to present a one-page summary of the status of a given fleet

● *If you would like less detail than the Fleet 1 report excluding the aircraft operator:-*

‣ use A/C Summary Report to simply give you the quantity of aircraft and engines by Type, Model and Engine according to your Multi-Pick Selections (e.g. all aircraft in North America) - check the Summary Report box to just present the quantity by aircraft type.

‣ use Engine Summary Report to simply give you the quantity of engines by Engine Type according to your Multi-Pick Selections (e.g. all aircraft in North America)

Lease Reports – Lease End

Located in the Aircraft Reports Menu, Lease End Reports gives you access to the lease end dates of over 3000 aircraft currently on lease. The program enables you to choose from the usual Multi-Pick Selections plus a month and year range or an individual month and year i.e. e.g. all 757 aircraft which come off-lease in October 2000 or between October 2000 and March 2001. You then have a choice of a Summary Report – listing brief details of the aircraft which match the selection criteria or a Detail Report which contains everything we know about each aircraft including utilisation, maintenance details and history.

An example of the Summary Report

Historical Fleet Reports

● You would like to know which BAe 146 aircraft were leased or purchased second-hand in 1991 in Europe and North America

‣ Select Historical A/C Reports from the Reports list in the Aircraft Reports screen

‣ Select the 146 from the Type list under Multi-Pick Options

‣ Select A - Europe including CIS from the World Region list under Multi-Pick Options

‣ then select F - North America from the World Region list under Multi-Pick Options

‣ Select Leased from the Status list under Multi-Pick Options

‣ then select Purchased S/Hand from the Status list under Multi-Pick Options

‣ Select Date Range under Range Options and enter 01/01/1991 in the Greater or Equal box and 31/12/1991 in the Less Than box

the screen will now look like this:

‣ now click on Preview or Print and the history of each 146 aircraft leased or purchased second-hand in 1991 in Europe and North America will be displayed. If you Check the Summary Report box under Report Options, the report will just show the operators and the number of 146 aircraft leased or purchased in 1991.

‣ to see the 146 fleet numbers on January 1 1991 and who operated them, select Date (Point in Time) and enter 01/01/1991

Aircraft Orders Reports

● You would like a summary of the *firm* orderbook for three aircraft types, the 777, A319 and 146 broken down by World Region

‣ Select Confirmed Aircraft Order Reports from the Reports list on the Aircraft Reports Screen *(for Orders which have yet to be confirmed but which have been announced as Letters of Intent, etc.,, select Unconfirmed Aircraft Order Reports)*

‣ Select New Aircraft Order Report from the Reports list in the Order Reports screen

‣ Select World Region from the Sort Order list

‣ Select the 777, A319 & 146 from the Type list under Multi-Pick Options

‣ then check the Summary Report Box and the screen will look like this:

‣ then click on Preview or Print.

‣ **Select Sort Order** to change how the data is presented, e.g. in customer, engine type

‣ **Click on Customer Type** to see just Operator Orders or Leasing Company Orders

‣ **Click on Orders Backlog Only** to see only Orders with a Delivery Backlog or Cancelled Orders Only to just select Cancellations

‣ to see only the **Delivery Schedule** for the aircraft orders you have selected, click on either **Annual** or **24 Month Delivery Schedule** Report in the Orders Reports list;

‣ to see a Summary of the Orders and the Current Fleet of an operator, select Orders Summary with Current Fleet from the Orders Reports list.

Aircraft Build Rates

In the Aircraft Orders Reports section of the Aircraft Reports Menu, select Build Rates
and the screen will change to the one below.

Then select Aircraft Maker, Model or Type and click on Preview

The screen will then show you the monthly build rates for each quarter of the next two
years. The data is sourced from the manufacturers.

Maintenance Reports Menu

Maintenance Reports

Airframe Inspection Intervals

● You would like a report on C Check intervals for Boeing 757 aircraft

‣ Select Inspection Intervals on the Maintenance Reports screen

‣ Check C Checks on Report Show Options

‣ Select the 757 from the A/C Type list under Multi-Pick
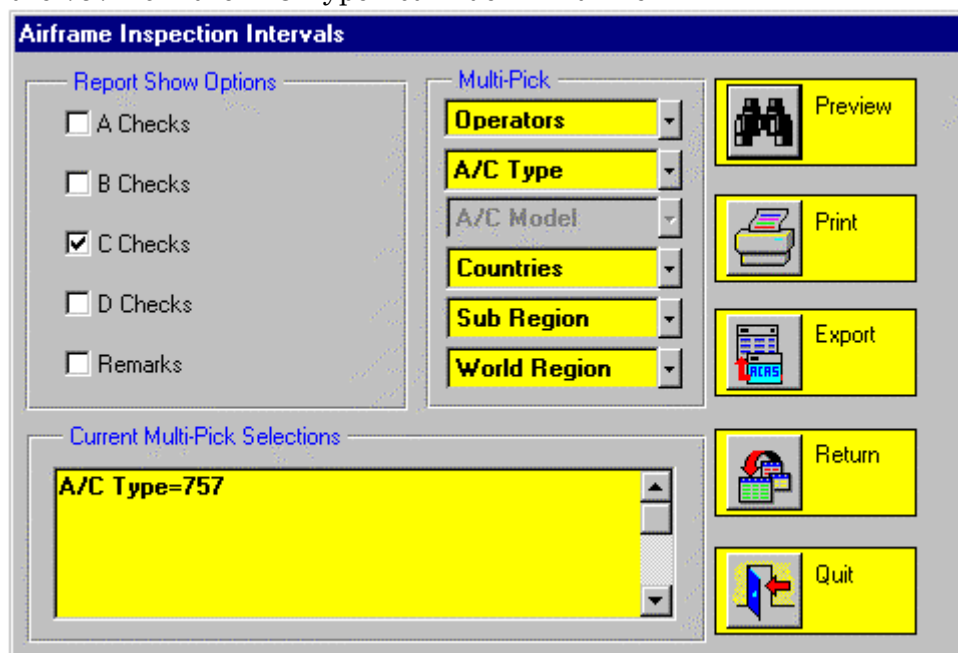
‣ then click on Preview, Print or Export

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Maintenance Reports Menu

Maintenance Reports (continued)

Overhaul Capabilities

● You would like to know the Airframe Overhaul Capabilities (if any) of Aeromexico

‣ select Capabilities for Operator/Facilities (default)

‣ in the Report Show Options section, check Operator/Contractor Details (optional) and Airframe

‣ in the Operator/Contractor section, click on Operators and select "AEROMEXICO" and then select Preview, Print or Export

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Maintenance Reports Menu

Maintenance Reports (continued)

Overhaul Capabilities - Further Examples

●The Airframe, Engine and APU sections of the screen allow you to further define your selection; for example:

■ **747 operators in North America who do not have an in-house D Check capability**

‣ select Operators/Facilities

‣ in the Report Show Options section, check Operator/Contractor Details and Airframe

‣ in the Airframe section, click on A/C Type and select "747"

‣ then click on Capability and select "D Check Contracted Out"

‣ then click on World Region and select "N.America"

‣ then select Preview, Print or Export

■ **CF6-80 Engine Overhaul Contractors in Europe**

‣ select Operators/Facilities

‣ in the Report Show Options section, check Operator/Contractor Details and Engine

‣ in the Engine section, click on Engines and select "CF6-80"

‣ then click on Capability and select "Engine Overhaul - Third Party"

‣ then click on World Region and select "Europe - including CIS"

‣ then select Preview, Print or Export

■ **APIC APU Fuel System Overhaul Contractors**

‣ select Operators/Facilities

‣ in the Report Show Options section, check Operator/Contractor Details and APU Accessories

‣ in the APU section, click on APU Maker and select "APIC"

‣ then click on Capability and select "Fuel System - Third Party"

‣ then select Preview, Print or Export

■ **Contractors' Customers - select Contractors' Customers**

Maintenance Reports (continued)

Maintenance Forecasts

Component Removals Forecasts

‣ Make your aircraft selections, select your Forecast Period in years and then click on Component Removals* in the Parameters box - the screen will then look like this: (see over)

*- although if you have Product Tracker Version 1.0, you may go straight to Component Removals Parameters and just select a Product or ATA Chapter/Sub-Chapter in the Product Tracker list and click Preview- the program will then forecast removals on all aircraft fitted with that product(s).

You may also click on "Include Future Operators of Aircraft Type" for those instances where operators have not yet received their first aircraft (and thus you cannot tag them with Product Tracker) but where you know that their aircraft – when delivered – will have the product installed and you want to include the aircraft in the forecast.

Maintenance Reports Menu

Maintenance Reports (continued)

‣ Enter the boxes you require - Description and Part Number (optional), Values (optional) MTBUR (required), Aircraft Retirement Parameters, Quantity per Airframe or Engine and Warranty Period (optional) and click on Save

‣ The Forecast will contain a graph of Removals by year and a Summary Box on the first page of the Report, followed by a detailed breakdown of removals for each year on subsequent pages. You can choose the level of detail on these subsequent pages by clicking on Group By in the Report Options box on the main screen.

Maintenance Reports Menu

Maintenance Reports (continued)

‣ To produce the Report Click on Preview, Print or Export.

The Screen below shows an example of the first page of the Report

Maintenance Reports Menu

Maintenance Reports (continued)

Maintenance Forecasts (Continued)

Airframe Check Forecasts

‣ To produce forecasts of Airframe Maintenance Checks, make your aircraft selections, select your Forecast Period in years and then click on Airframe Check in the Parameters box

‣ The screen will then look like this:

‣ Select the boxes you require - Check Type, Capability Filter (if you have selected say, all 757 aircraft in Europe and want to forecast C Check arisings for operators who contract out their maintenance, click on Contracted Out in the Capability Filter box), Check Values (optional), Aircraft Retirement Parameters and click on Save

‣ The Forecast will contain a graph of Check Arisings by year and a Summary Box on the first page of the Report, followed by a detailed breakdown of arisings for each year on subsequent pages. You can choose the level of detail on these subsequent pages by clicking on Group By in the Report Options box on the main screen.

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Maintenance Reports Menu

Maintenance Reports (continued)

‣ To produce the Report Click on Preview, Print or Export.

The Screen below shows an example of the first page of the Report

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Maintenance Reports (continued)

Individual Airframe Check Forecasts

‣ This screen allows you to forecast the next airframe check for aircraft where you know the last check event date, hours or cycles.

‣ You reach the Individual Airframe Check Screen by:

  Clicking on A/C Maintenance Reports on the Main ACAS Screen
  Click on Forecasting on the A/C Maintenance Screen
  Click on 'Individual Airframe Check' button on the Forecasting Screen.

And the following screen will appear:

‣ To produce forecasts of Individual Airframe Maintenance Checks:

  Click in the serial or registration box, then type the first few characters.
  Choose any aircraft from the Selections list, then press the Add button.
  Select Check Type, A, B, C, D
  Change any of the Aircraft Retirement parameters boxes.
  Make sure that at least one of the Check Intervals are greater than 0.
  Optionally enter an event into one of the Check Event boxes.
  Add any check values as you wish.
  Click on Save and use the Print or Preview buttons to see the report.
The Forecast will contain a graph of Check Arisings by year and a Summary Box on the first page of the Report, followed by a detailed breakdown of arisings for each year on subsequent pages.

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Analytical Reports Menu

Fleet Performance

In its standard form, the Fleet Performance program uses a rolling 24 month file to analyse the utilisation performance according to your selection criteria with a choice of 4 graph types. The program produces a graph of hours and cycles flown over the last 24 months.

● You would like a report on the trends in aircraft usage for American Airlines over the last 2 years

‣ in the Multi-Pick section, click on Operators and select American Airlines

‣ then select your graph type and select Preview, Print or Export

‣ alternatively check Export to Clipboard and you can then paste the graph into your Word Processing software

Fleet Performance - Standard Version
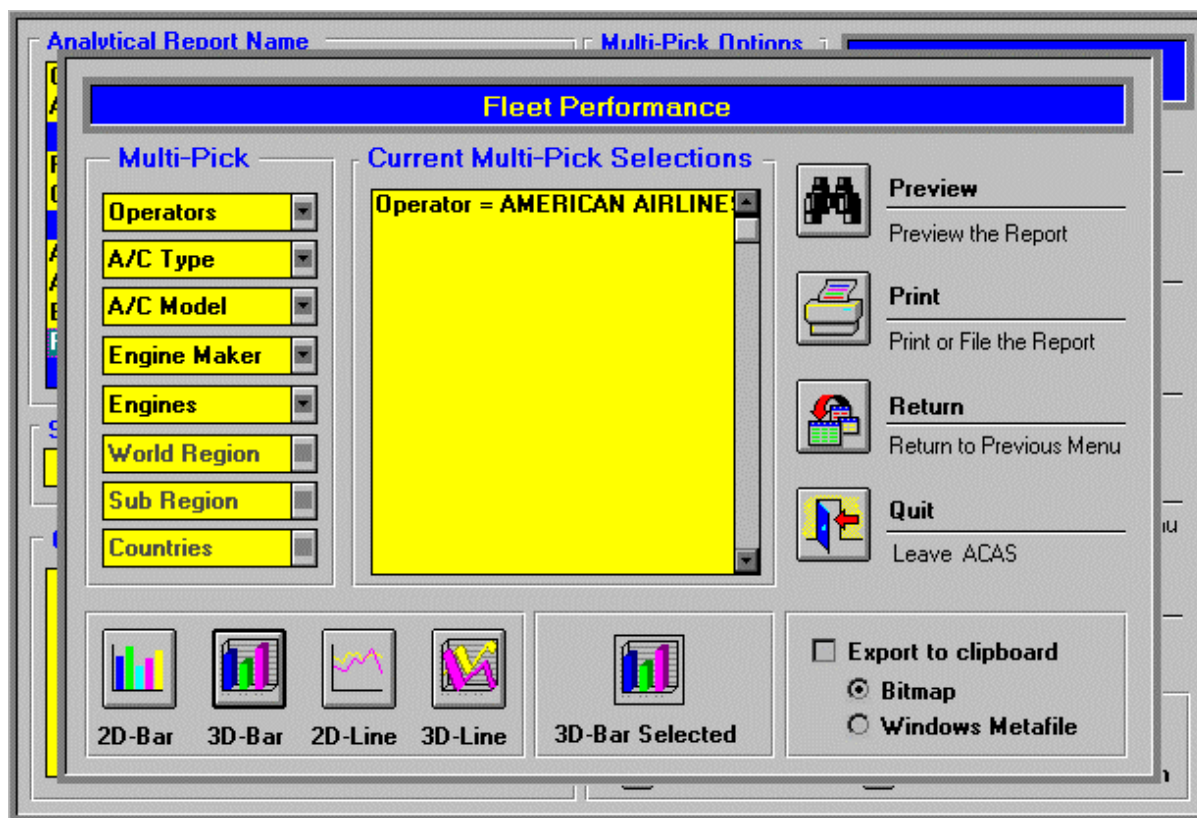
Note: an enhanced version called Time-Series – which tracks aircraft utilisation since January 1990 – is available as an Optional Module at extra cost – see the Optional Modules tab for further information

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Analytical Reports Menu

Fleet Forecast Program

⁸The Fleet Forecast program allows you to forecast demand (in terms of available seat-kilometres) for up to 25 years. The program then plots the seat-kilometre production of the existing fleet including deliveries of the existing order backlog less aircraft retirements - according to your selected retirement parameters.

(if you simply want to forecast airframe and engine flying hours and cycles over time – including new aircraft deliveries and aircraft retirements – select the Utilisation Forecast program)

‣ Group by Report Option

Click on the Group By popup and select Serial Number

Then click on Operator under Multi-Pick Selections and Select LTU.

Analytical Reports Menu

Then click on Growth Profiles and select your Profile and optionally save it as a stored selection for future use.

The Growth Profile contains a popup entitled "Manufacturer Supplied Profiles". While the Douglas selection is the only active profile at the moment (courtesy of Douglas Aircraft Company Marketing Department) , if you click the button, the growth values will be filled with the manufacturer's current market forecast values.

Analytical Reports Menu

Then click on Preview and the screen will look like this

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Analytical Reports Menu

Click on Next and the following page will contain details of aircraft retirements by serial number

	Fleet Forecast Report Not Including Parked Aircraft					
: Operator = LTU,A/C Role = Passenger,						
Retirement parameters	Age 30	Hours 100000	Cycles 100000	Noise stage 2 in 5 years		
Year Retired	Serial Number	Operator		Type	Model	Engine Type
2009	24257	LTU		767	767-300EREM	PW4060
2009	24258	LTU		767	767-300EREM	PW4060
2010	24259	LTU		767	767-300EREM	PW4060
2012	25531	LTU		767	767-300EREM	PW4056
2014	48484	LTU		MD11	MD11-P	PW4460
2015	48538	LTU		MD11	MD11-P	PW4460

Aircraft Trends

The Aircraft Trends program brings together historical and current fleet data plus orders and future deliveries to give access to World Cumulative Year-End Trends (showing, for example, a graph of Fleet Growth over up to 40 Years for Boeing 747 aircraft, including the option of Forecasting future retirements and deliveries) plus Annual Activity Reports showing orders, deliveries, backlog and fleet movements in each year, leased in, leased out, second-hand sales and purchases, etc.

World Cumulative Year-End Trends Report: A/C Type=747, Year Range=1969-1998

Annual Activity Report: A/C Type=747, Year Range=1969-1998

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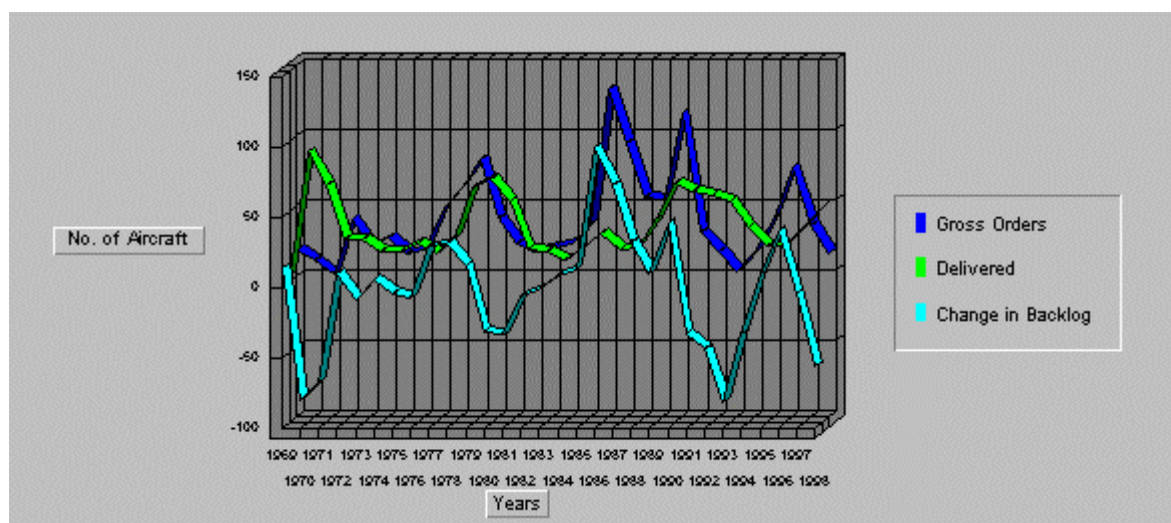
Analytical Reports Menu

Controlling Graphs

‣ Select Age Analysis and Type=747

‣ Click on the Graph button and the following screen will appear:-
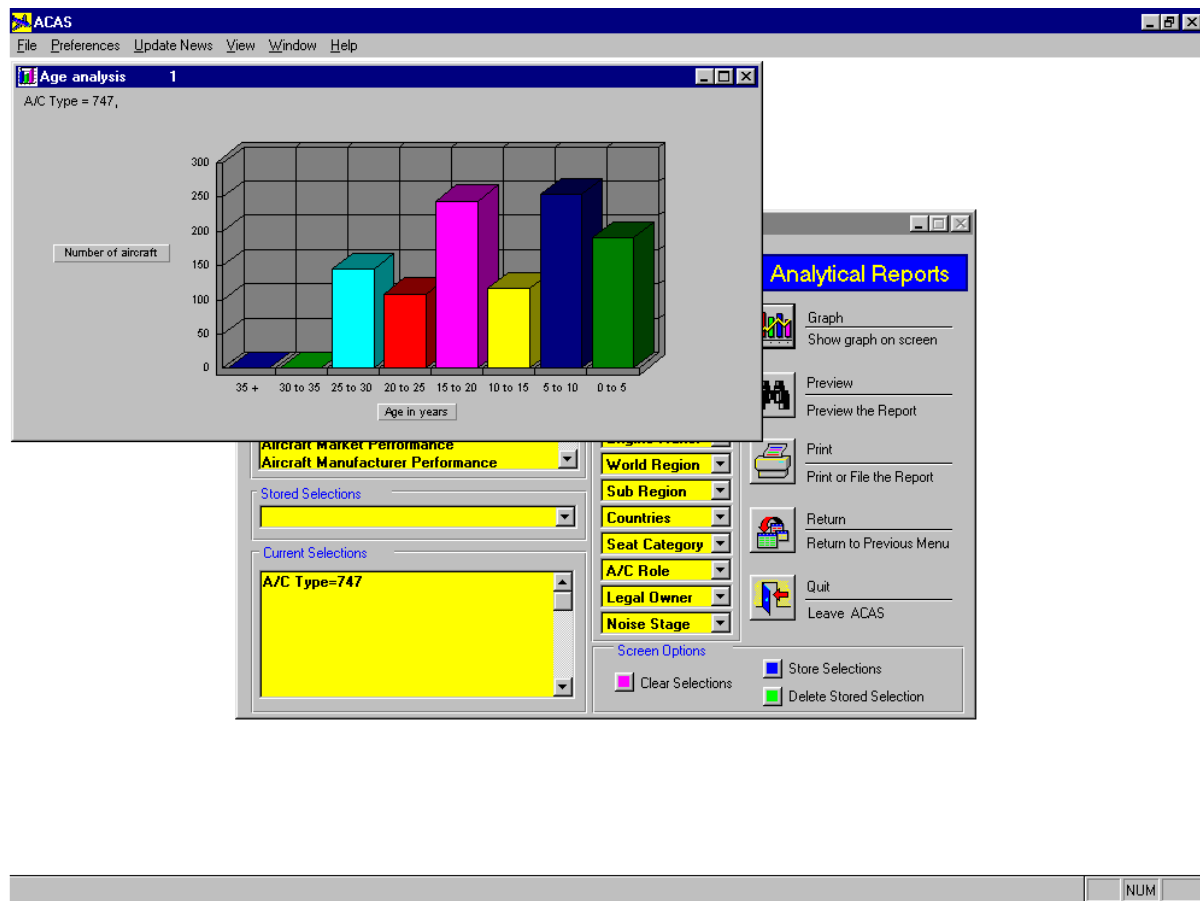
‣ right-click the graph on the screen and the ACAS Graph Options window will appear (please turn over):

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Analytical Reports Menu

Controlling Graphs (continued)
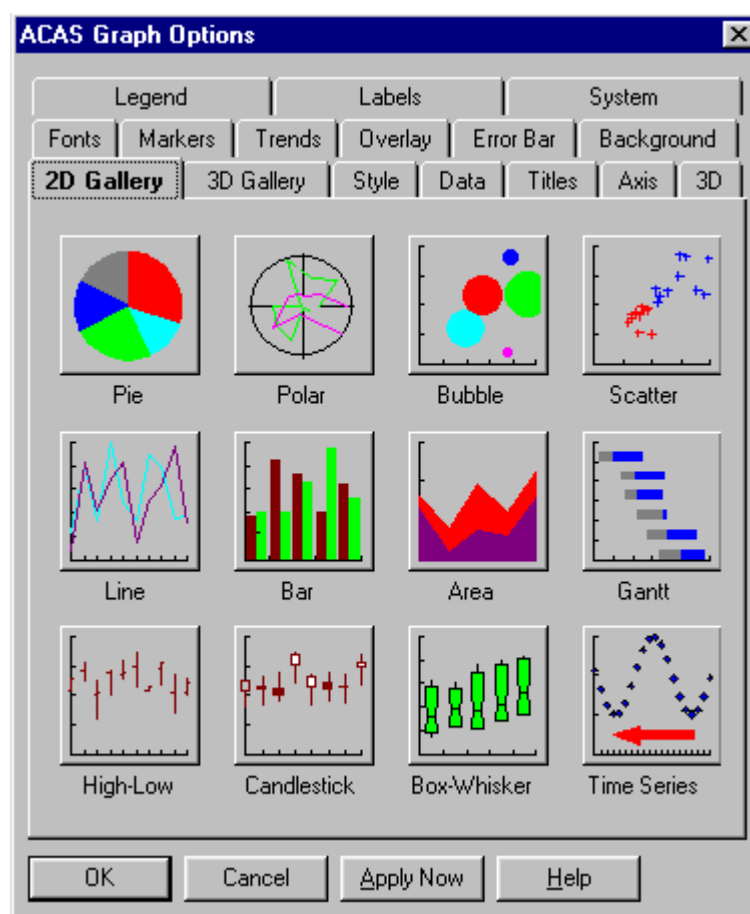
‣ Click on any of the graphs in the 2D or 3D Gallery and then click on Apply Now and the graph will change to your selection

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Controlling Graphs (continued)

‣ To copy the graph to the Clipboard or a file, click on the System Tab
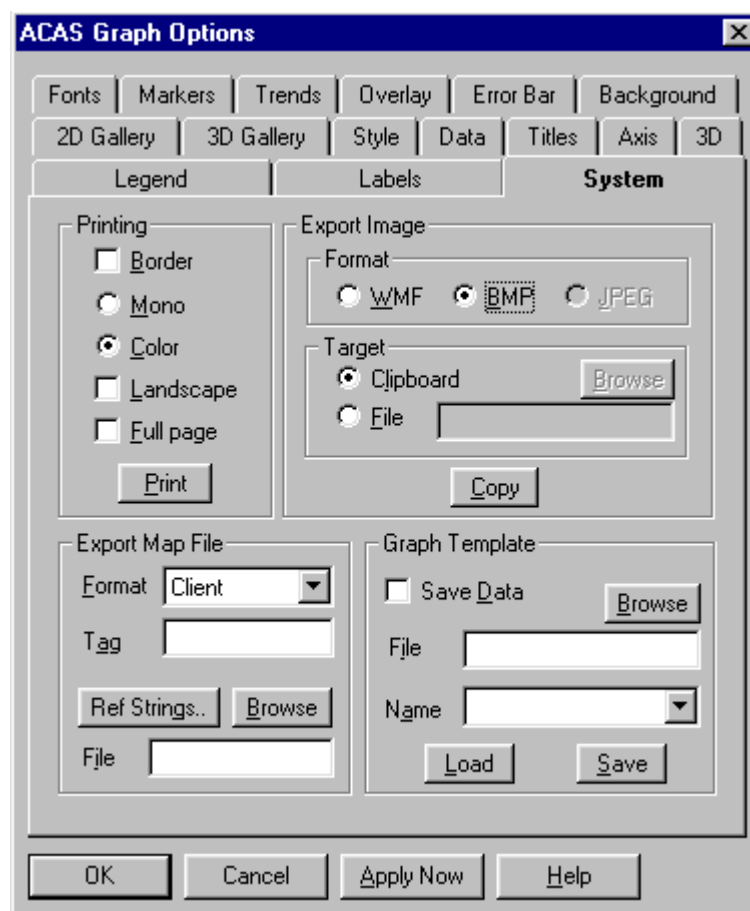
‣ In the Export Image section, select the picture Format and Target and then click on Copy.

‣ If you now open your word processor software and click on Paste, the graph will appear in your document

 ACAS Contact Manager

Welcome to the ACAS Contact Manager

ACAS Contact Manager allows you to do the following:-

Browse Contacts

Browse Companies

Add Contacts

Add Companies

Add Notes & Reminders (including Documents and Images) to Contacts and Companies

Maintain a Network-wide Diary and Calendar

Edit ACAS supplied Contacts and Companies

Create tags for Contacts

Create tags for Companies

Filter records by ACAS criteria (aircraft type, engine type, etc.,) and/or Company/Contact Tags

Create and print mailmerge documents

Send email messages

Import data from other Contact Manager programs

Export data

Reports

Labels

And (optionally) with complete security.

The following pages show you how!

Contact Manager Security

When you **start** Contact Manager, you will see a Logon screen containing User Name, Password and Department. If you do not wish to enable Security, just click on Logon (**DO NOT SELECT** or enter anything in Password or Department) and the Contact Manager screen will appear with full access to all functions.

To enable security, after starting Contact Manager as above, click on File on the Contact Manager top menu and you will see Administrator. If you want to set up Users and allocate User Rights, click on Administrator and the following screen will appear:
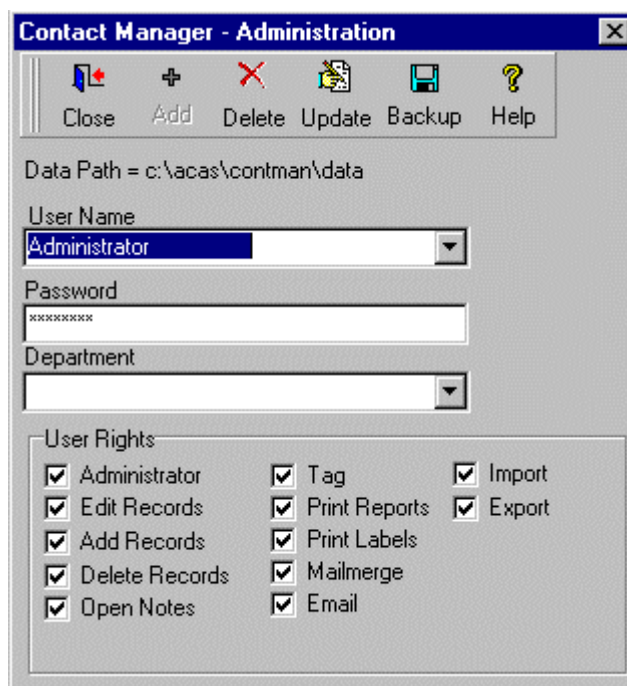
The default User Name is Administrator with full User Rights; If you want to enable security, you must **FIRST change the Administrator Password.** Click on User Name and select Administrator, then type in the new Password in the Password section and optionally enter a Department name in the Department section. Then click on Update to save the new password. Users will not now be able to logon without the new password.
Then add Users as required by entering a (UNIQUE) User Name , their Password and Department, select the User Rights and then Click on Add for each New User.

The Administrator Screen also contains a Backup button, so that you can Backup your Contact Manager Data Files to a location of your choice. See Contact Manager HELP for instructions on restoring the Data Files.

Company Details

When Company Details are selected, the current company is displayed in the right hand panel of ACAS Contact Manager.

To find a company

click on the 'Enter Contact / Company' box and start to type the company name. Alternatively use the AB...Z selection pointer, and the scroll arrows.

You can edit the Tags or Notes by clicking on the appropriate button.
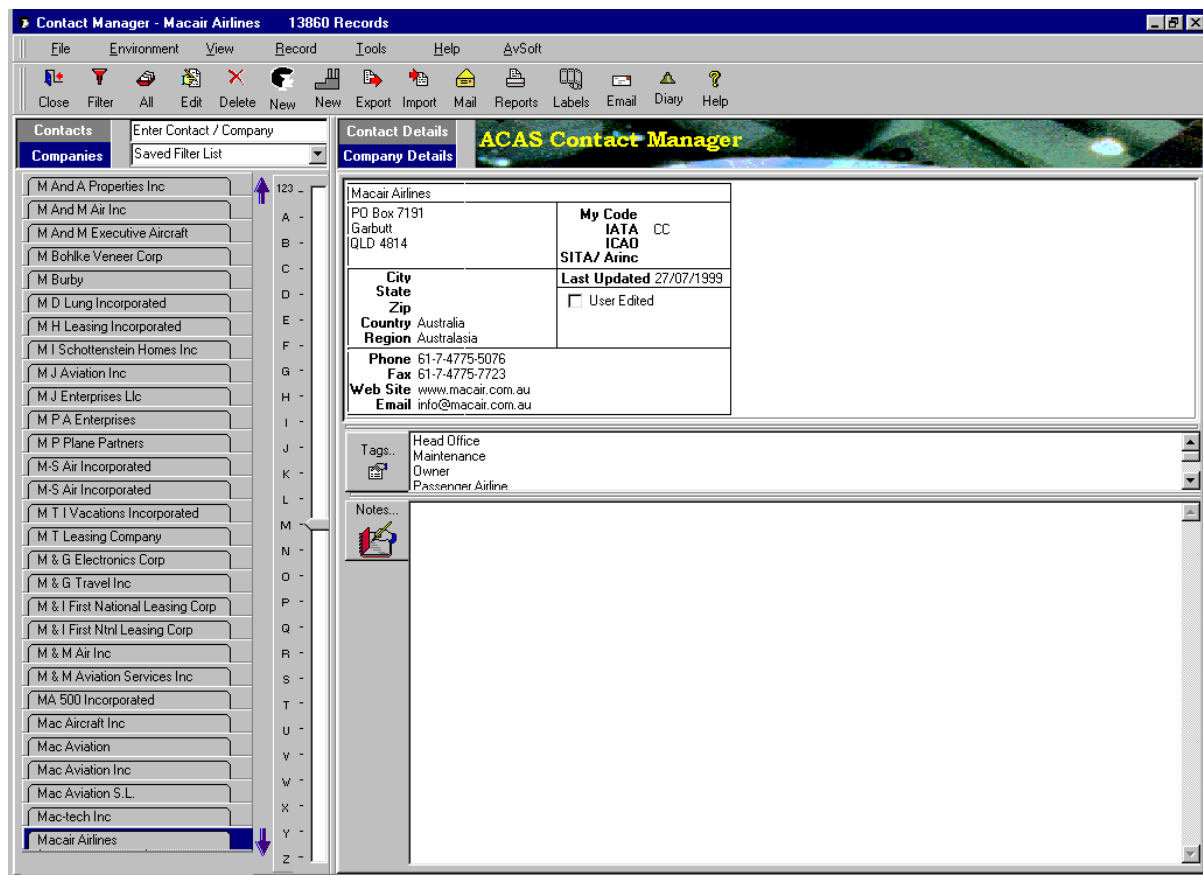
Diary
Click on Diary to add appointments, holidays, etc., the entries may be personal, department-wide or network-wide.

Contact Details

When Contact Details are selected all the contacts for the current company are
displayed in the right hand panel of ACAS Contact Manager. Each contact has its own
tab - to select a different contact, click on the tab. You can edit the Tags or Notes by
clicking on the appropriate button.
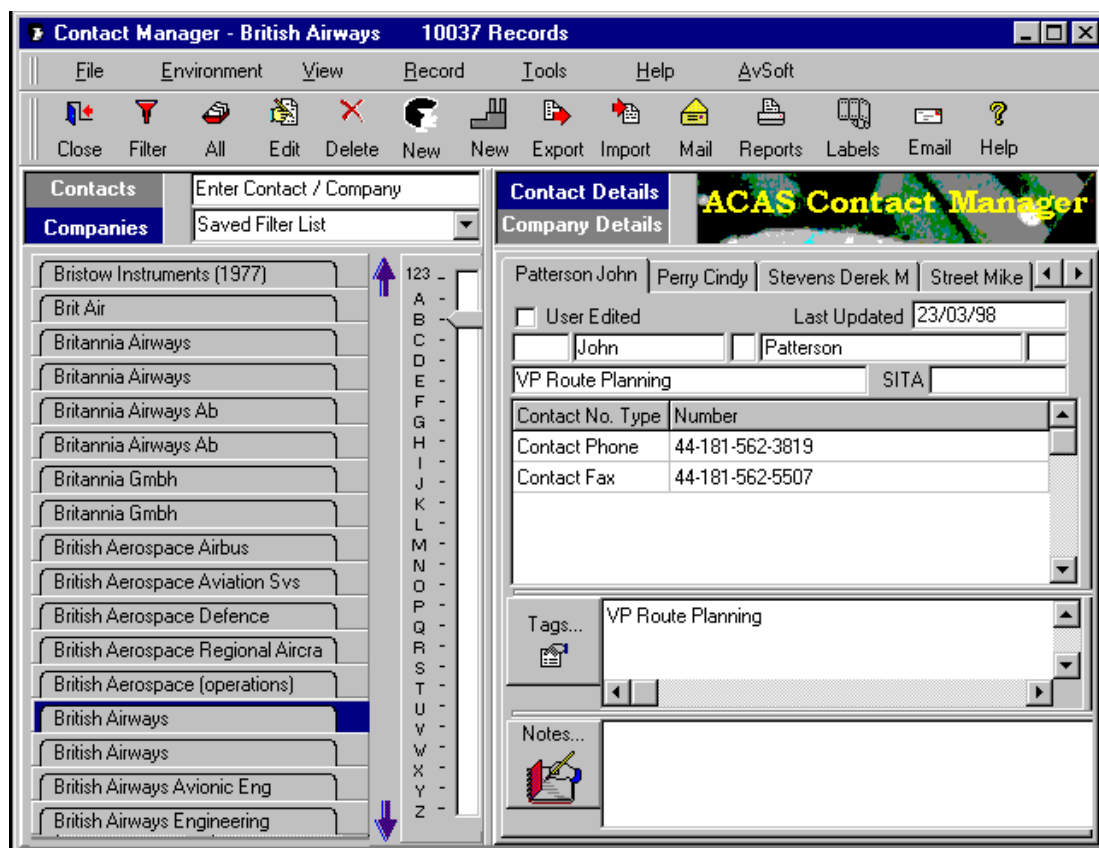
By selecting Contacts above the list, the list will change from displaying companies to
contact.

To find a contact
click on the 'Enter Contact / Company' box and start to type the contact's name.
Alternatively use the AB…Z selection pointer, and the scroll arrows.

New

Add New Company

Adding a Company

Click on New (add a New Company) and enter the details in the Adding New Company screen (optionally add Notes and Tag the Company)

Note. When you add a new Company you may (if you wish) also add a new Contact at that Company.

  Add New Contact

Adding a Contact to an existing Company Record

Select the Company and then click on New (Add a new Contact) and enter the details in the Adding New Contact screen (optionally add Notes and Tag the Contact).

Then click Save to save the data.

Adding / Editing Notes

Adding / Editing Notes to a Contact or Company -

Click on Contacts or Companies and type the name of the contact or Company you are looking for –

Select Company or Contact details, then click on Notes and type the notes you want to add / edit.

The date is automatically entered into the notes.
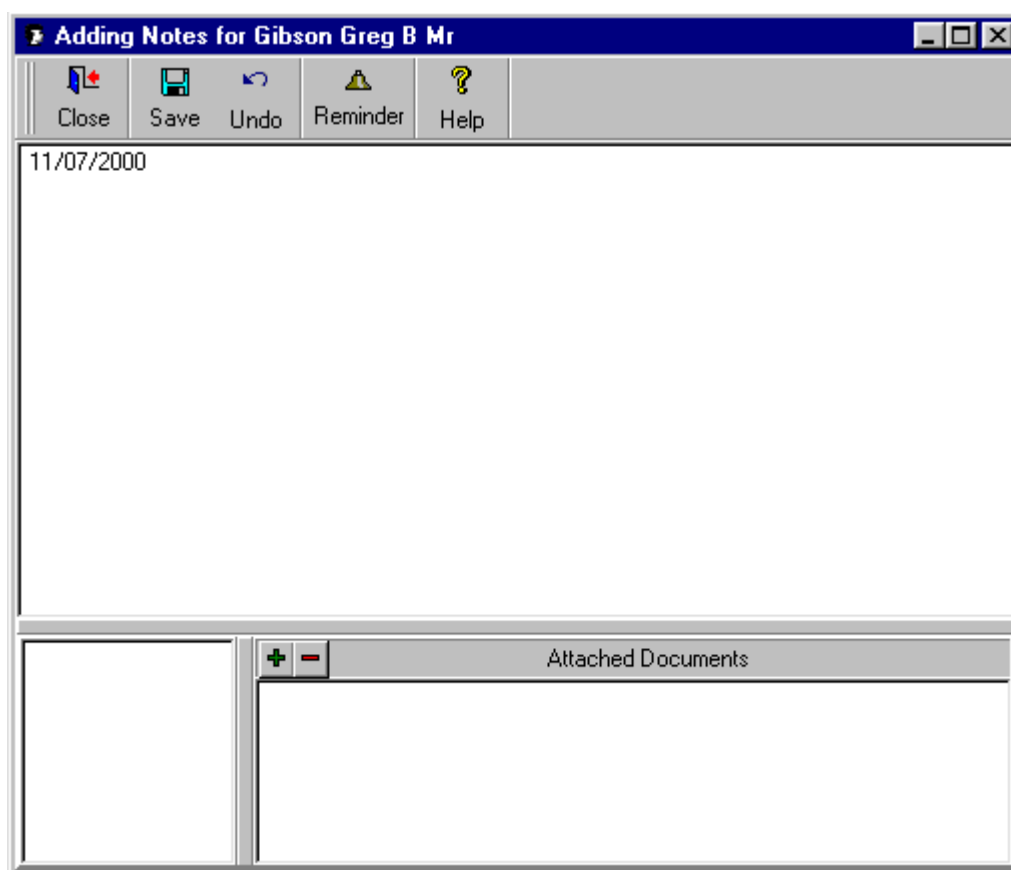
Reminder

Click on Reminder to add a future reminder - the reminder will appear on your screen so long as Contact Manager is at least minimised.

Attach Documents/Images

You can attach documents and images to the notes by
1. Click on the + button.
2. Select the document or image you want to attach to the notes.

You can edit the attached document or image by double clicking on the document in the bottom left window which can be resized.

Note :- Only a copy of the document or image is attached to the notes.

Edit   **Edit Contacts and Companies**

Editing ACAS supplied Contacts and Companies -

Click on Contacts or Companies and type the name of the Contact or Company you are looking for in the incremental search box –

Then click on Edit, enter the data as required and Click on Save.

Print Button
To print the record, click on Print
A preview of the report will be displayed,

Click on the Print from the Preview to print the Record.

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Address...   **Edit Address**

This screen is displayed when you click on the edit address icon on the Edit Company Screen
Enter the data then click on Save.

Edit Address		
Close	Save	Undo	Help

Address	1013 Centre Road
	De 19890
City	Wilmington
State / Province	Delaware
State Code	DE
Region	N.America
Zip / Post code	19890
	North America
Country	USA

Address...

Edit Address (Continued)

You can also add a new contact when editing a company by clicking on the **+** Contact button.

Click on Name

Then Add/Edit the contact's name and click on the OK button

Create / Edit Company Tags

Create/Edit Tags for Companies

Click on Contacts or Companies and type the name of the contact or Company you are looking for – then click on Tags – if you have selected Contacts you will only be able to select or create a Contact Tag – if you have selected Companies, you can select a Company Tag from the list supplied or create a new one or you can select a Maintenance Tag as well by clicking on the Maintenance Tags tree to the left of the screen.

You can have as many tags as you want, e.g. an operator could have the following Tags: Airline, Schedule, D Check Contractor, Contract-Out Engine Overhaul

You then use the Tags to filter the records as you choose, e.g. all Airlines in Europe who Contract-Out Engine Overhaul or all Contacts tagged as Favorite

Tags..

Create / Edit Contact Tags

Create/Edit Tags for Contacts

Click on Contacts or Companies and type the name of the contact or Company you are looking for – then click on Tags – if you have selected Contacts you will only be able to select or create a Contact Tag – if you have selected Companies, you can select a Company Tag from the list supplied or create a new one or you can select a Maintenance Tag as well by clicking on the Maintenance Tags tree to the left of the screen.

You can have as many tags as you want, e.g. an operator could have the following Tags: Airline, Schedule, D Check Contractor, Contract-Out Engine Overhaul

You then use the Tags to filter the records as you choose, e.g. all Airlines in Europe who Contract-Out Engine Overhaul or all Contacts tagged as Favorite

Filter Records

Filter Records by ACAS Criteria (e.g. aircraft type, engine type, etc.,) or Tags –
Click on Filter and the Filter Records screen appears – make your selections e.g.
A/C Type='146' and then optionally select Companies, Contacts, Maintenance Tags or
Product Tracker Products (if installed)
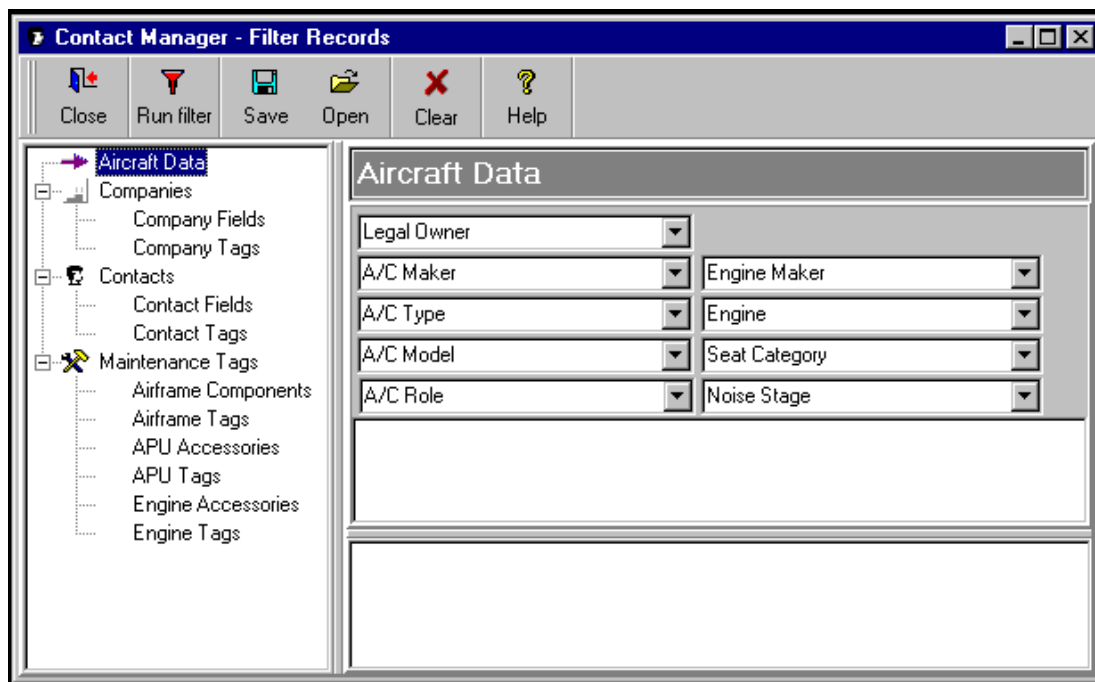
Filter on Company or Contact fields
Select the field you wish to filter on e.g. Country from the company fields list.
The right hand pick list will fill with available countries or you can type a partial
country e.g. "Fra*". Then click the Add button and your selection will be added to the
filter.
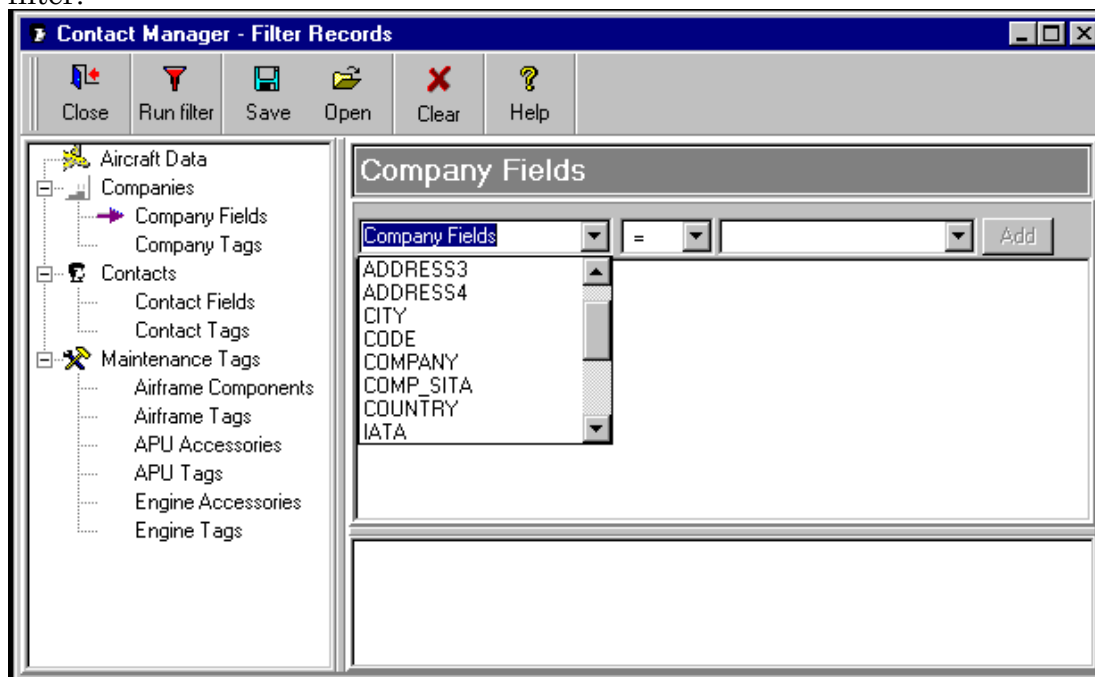
Save

Save Filter

Enter a name and a description for the filter and click Save.
The name of the filter will appear in the saved filter list in the Main ACAS Contact Manager screen.

Open Saved Filters

You can open a saved filter by selecting it in the left-hand list.
A description of the filter will be displayed on the right.
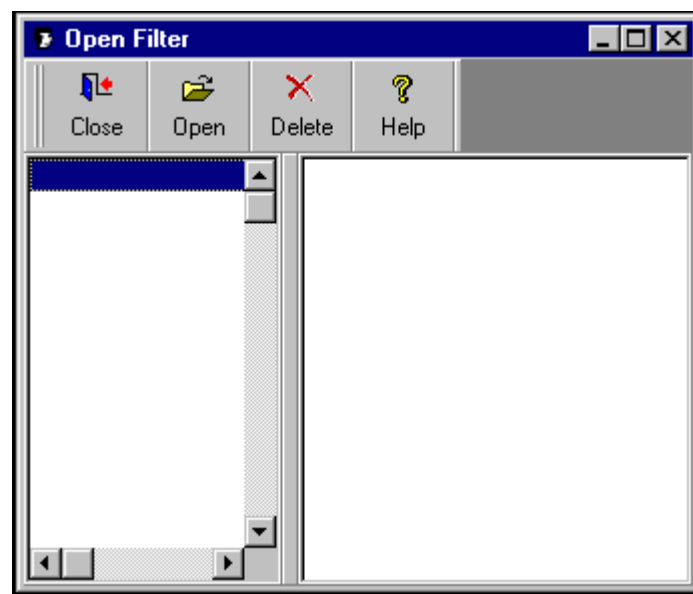
Create and Print Mailmerge Documents

Creating A Template

Firstly filter the records so that only the companies and contacts that you wish to use
are in the left-hand list of the main ACAS Contact Manager screen.
Click on the Mail button on the main ACAS Contact Manager screen.
A blank template will be displayed similar to the one below. Picture 1
Create a new template or open a previously saved one.
To insert a field in your document,

> place the cursor in the document where you want the field to be inserted,
> click on the Insert Field Button on the menu bar,
> a list of available fields will be displayed,
> simply click on the one you want to insert.

You can save the template for later use by clicking on the Save button and giving it a
file name.
Then click on the Merge button, this will merge the list from the main ACAS Contact
Manager screen with your mail merge template and a browse window will open as in
picture 2 below.

To adjust the height of the page header drag the bar between the main document and
the page header up or down. The number of blank lines printed for your header will be
displayed.

Picture 1
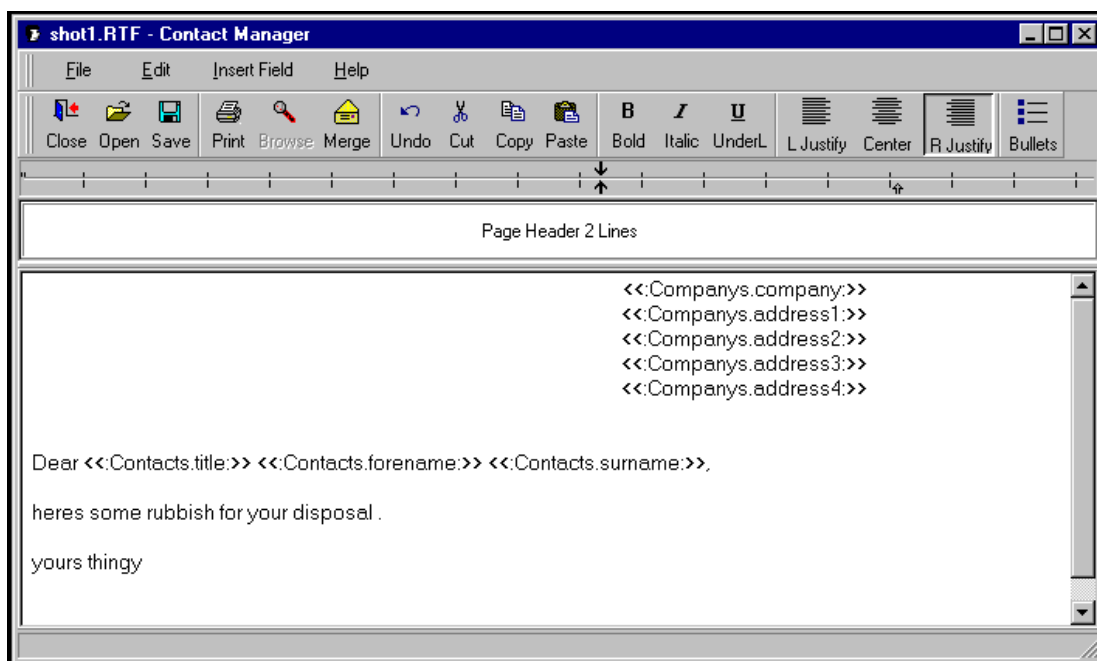
Mail   **Create and Print Mailmerge Documents** (Continued)

Browsing Mail Merged Documents

Browse the merged documents by using the navigation buttons.
You can edit the current document and print it, but the edits are not saved.
To print the documents click on the print button.

Picture 2
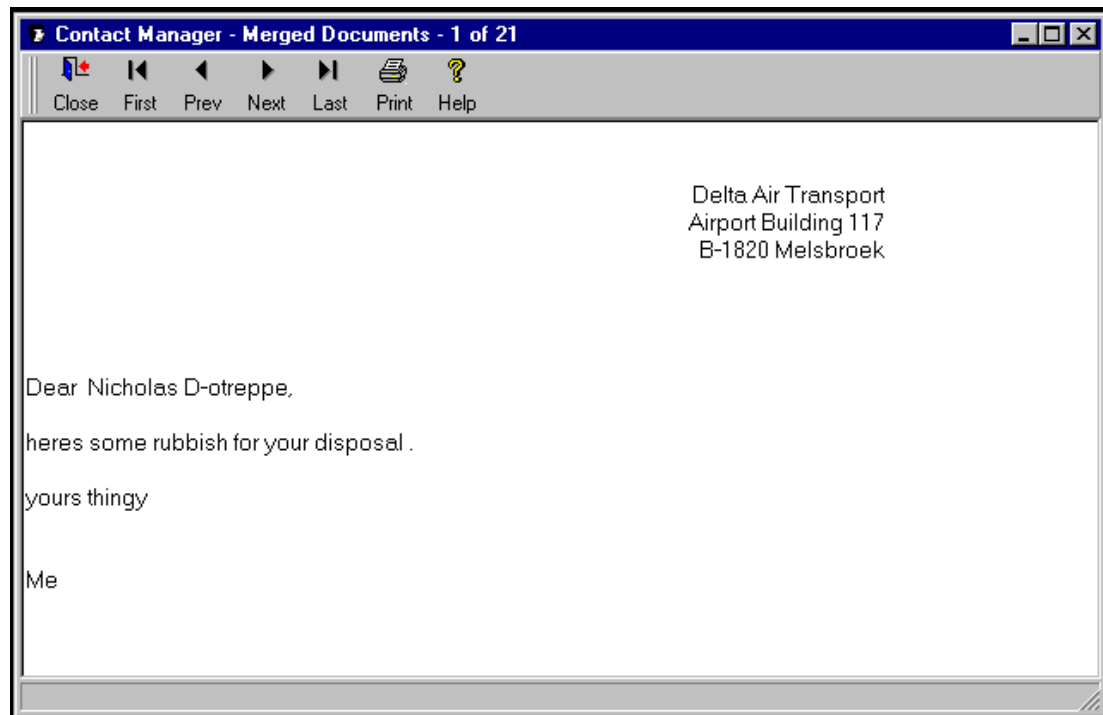
When you click on the print button you are asked if you want to print this document or all documents in the mail merge.

Picture 3

Email **Send Email Messages**

You can run an Email Merge as you would a Mail Merge simply by clicking on the email button on the main ACAS Contact Manager Screen

When you click on the email button you are first asked whether you want to send an email to "This Contact", "All Contacts at this Company" or "All Contacts" in your filtered list. Picture 1

When ACAS Contact Manager has finished the email merge, your usual emailing service will take over to send the emails – enter your message and then click on Send.

Picture 1

Each time there is no email address for the current contact you are asked if you want to add one at this point.
To suppress the Screen in Picture 2 check the "Don't show this Form again" box and the prompt won't be displayed again during this email session.

Picture 2
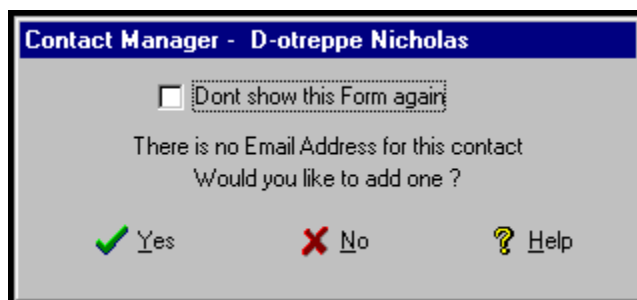
If you choose to add the email address at this point the screen as in Picture 3 will be displayed
enter the new email address for this contact and click on OK.
The email address will be saved with the contacts details.

Picture 3

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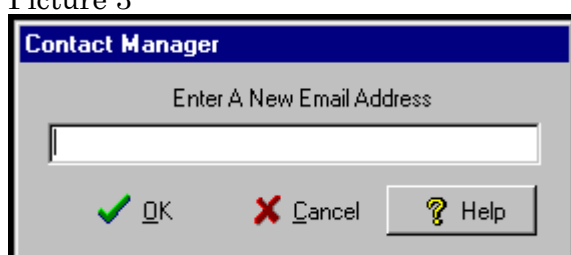
Import Data

Click on the Browse button and select the file that you want to import data from. Select the type of table it is e.g. FoxPro

Then click on the next button.

Import Data (continued...)

The screen below shows ACAS Contact Manager fields on the left and your Contact Manager fields on the right.

To map your fields to ACAS Contact Manager fields :-

First highlight your field then highlight the corresponding field in ACAS Contact Manager,

When you are satisfied that they are matched you can click on the add button.
When you have finished mapping your fields to ACAS Contact Manager fields, click on the finish button and the data will be imported.

Tip. If you have more than one phone number for a Contact then you can attach each of your phone fields to the single Phone Field in ACAS Contact Manager. For each of your phone numbers (e.g. phone, fax, telex) a separate entry will be created in the ACAS Contact Manager files.

Import Data (continued…)

During the import, if there are any Companies with the same name that are already in ACAS Contact Manager then the screen below will appear.

Select the company that you wish to attach the company shown under "Your Data" to by highlighting it in the top left list.

Then click on the OK button.

If you want to add Your Company as a new one then click on the None Button.

You can select whether to "Keep Your Data" in which case the data in contact ACAS Contact Manager will be over written with your data, or choose to keep the data already in ACAS Contact Manager.

See Also File Structures

Export **Export Data**

From here you can export your Companies and Contacts from the filtered list into a standard DBase IV format.

First select the fields that you want to export.
Select the order that you wish the exported file to be in.
Then click on OK
When the Save As Screen is displayed,
Type in a file name e.g. Export.dbf,
select the directory and click on the Save button

All the companies and contacts that are in the List on the main ACAS Contact Manager screen will be exported.

For Other export formats please see Reports

See Also File Structures
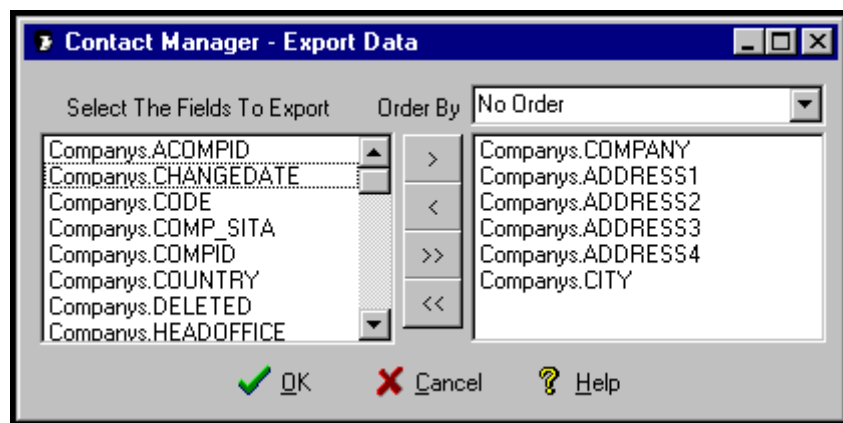
Reports

To run a Report, click on the Reports button on the tool bar of the main ACAS Contact Manager screen. Select the report from the reports sub-folder of ACAS Contact Manager.
Select whether you wish to print this contact, All Contacts at this Company or All Contacts in your filtered list.
A browse window will open and the report will appear.
You can print the report or export it by clicking on the envelope icon.
To close the report click on the X in the top right hand corner.

You may have more than one report open at any one time.
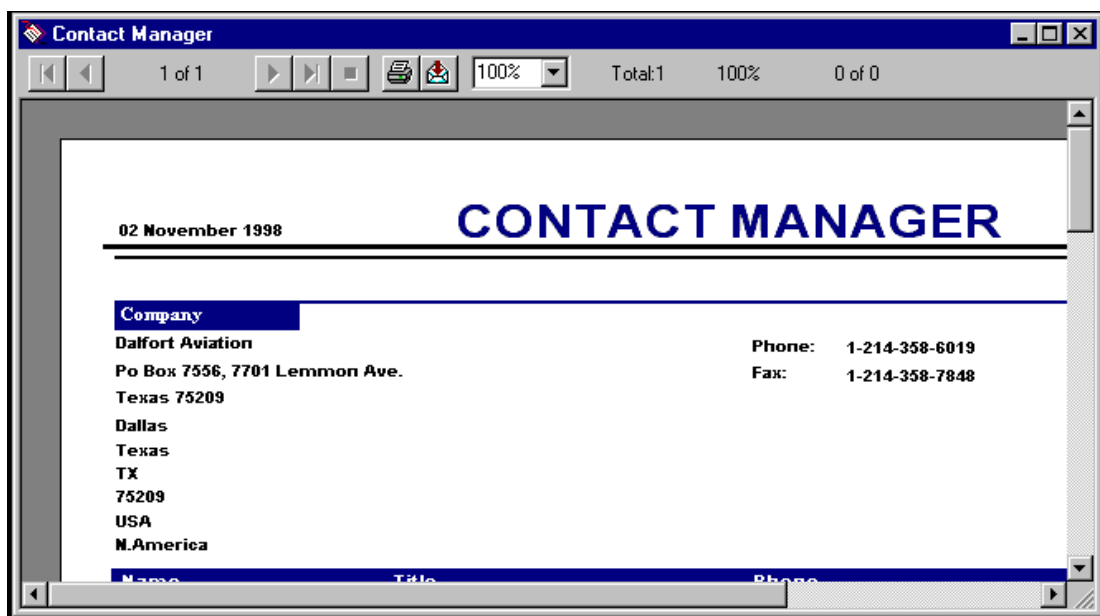
See Also Printing Labels.

Labels

Print Mailing Labels

Firstly filter the records so that only the contacts that you wish to mail are in the main ACAS Contact Manager list.

Select the Label and click open.
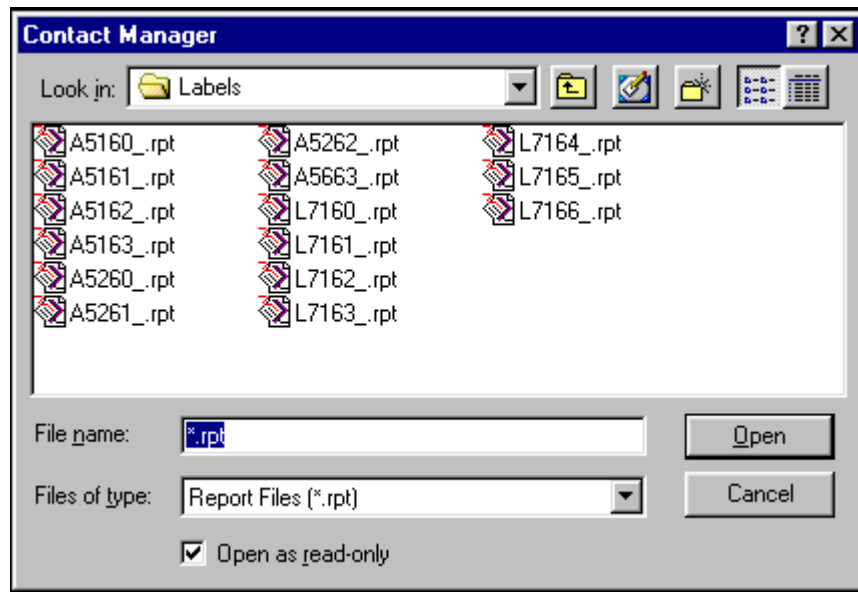
You will then be asked if you want to print labels for "This Contact", "All Contacts at this company" or "All Contacts" in the filtered list. Select the required choice and click the OK button.

If there are a large number of addresses in the list, the report may take some time to run.

See Also Printing Reports

QDT - Query Design Tool

a program designed to allow you to make customised queries and reports from either ACAS data files or your own data files or a combination of both.
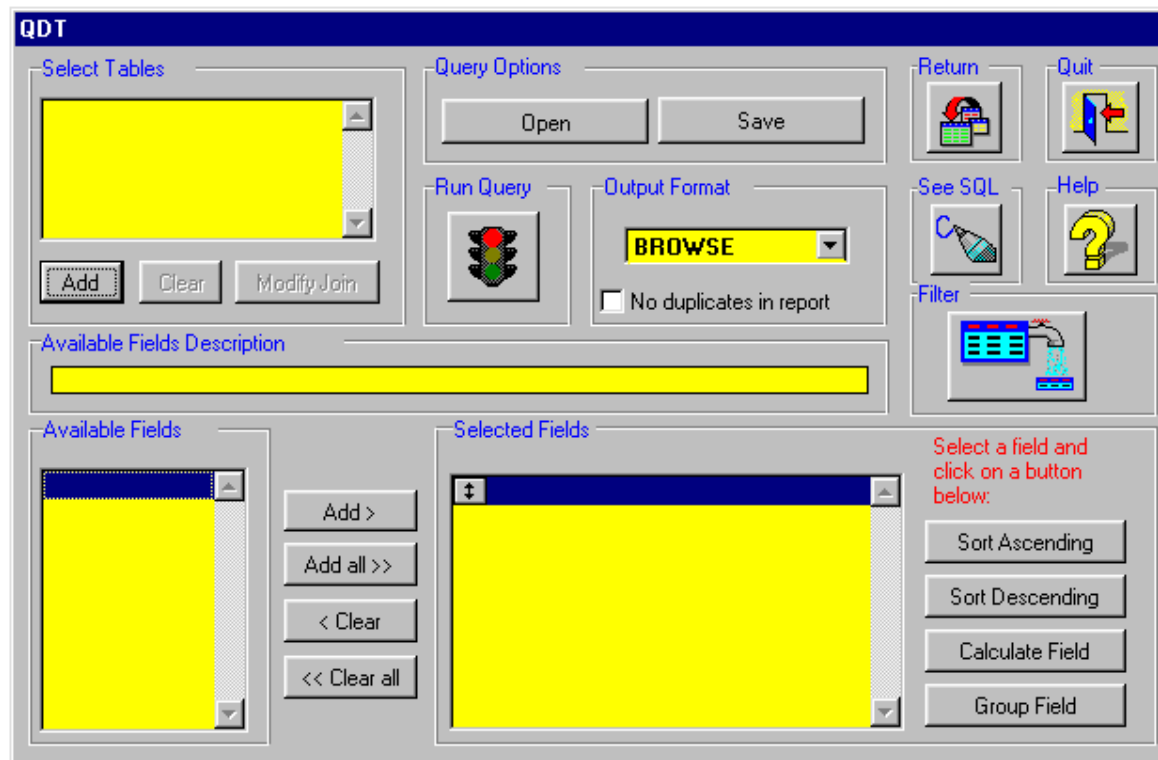
Selecting a Data File(s)
Click on Add in the Select Tables box and you will see the screen below (Click on HELP for a description of the data files)

➔ Then select ACDATA.DBF (the main current aircraft data file - for a description of any data file, click on HELP) and then click on Open (or double-click on ACDATA.DBF)

➔ ACDATA will then appear in the Select Tables box and the ACDATA data fields will then appear in the Available Fields box. Click on the fields you require (a description of each highlighted field will appear in Available Fields Description) and click on Add to add them to the Selected Fields box (or just double-click them)
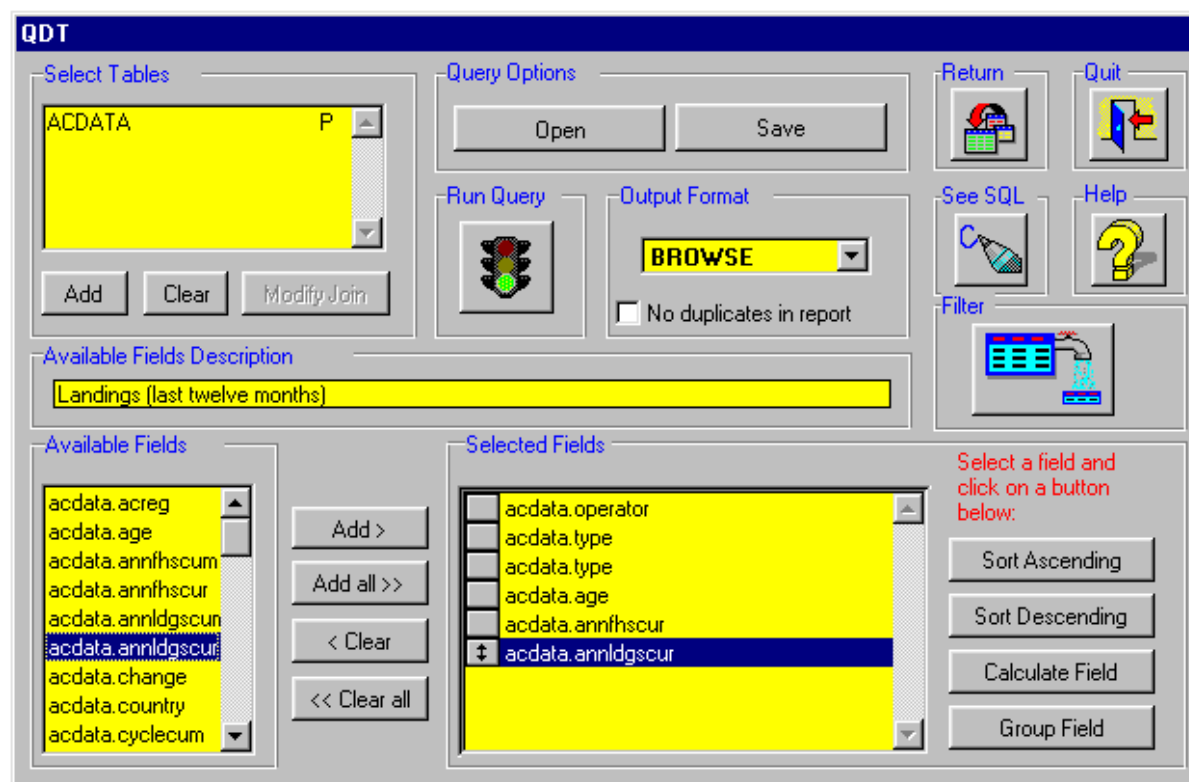
Summary Report

to create a summary report summarised by Operator, click on acdata.operator in the Selected Fields box to highlight it and then click on Group Field(to change it back to a detailed Report, click on Ungroup Field)

Calculations - Sum, Average, Count etc.,

 - to sum**,** average, count etc., any data field, click on the required field in the Selected Fields box and click on Calculate Field - the box below will then appear.

NOTE: to show both an Aircraft Type and a COUNT of the Aircraft Type (or model or engine etc) select the field in AVAILABLE FIELDS e.g. ACDATA.TYPE - <u>twice</u>, so that it appears twice in SELECTED FIELDS on the main QDT screen - then highlight one of them and click on Calculate.
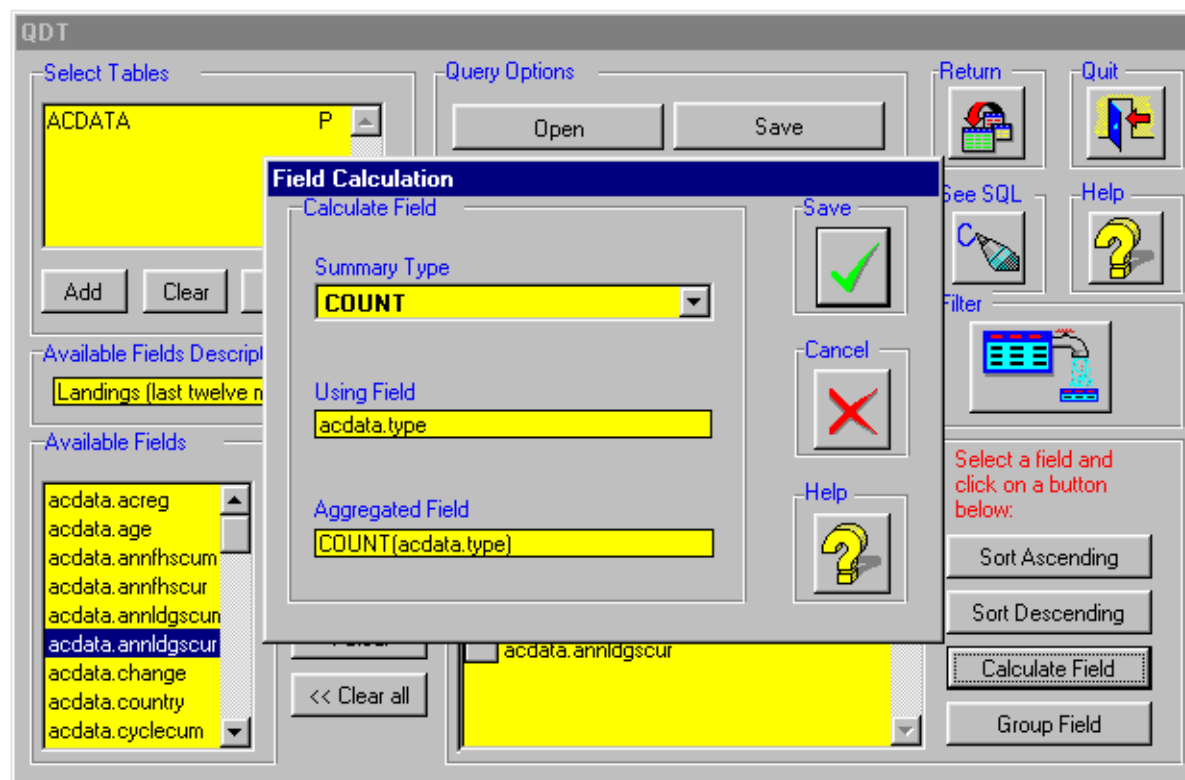
➔ **Calculations (Continued)**

Click on Summary Type and a list will appear as below:
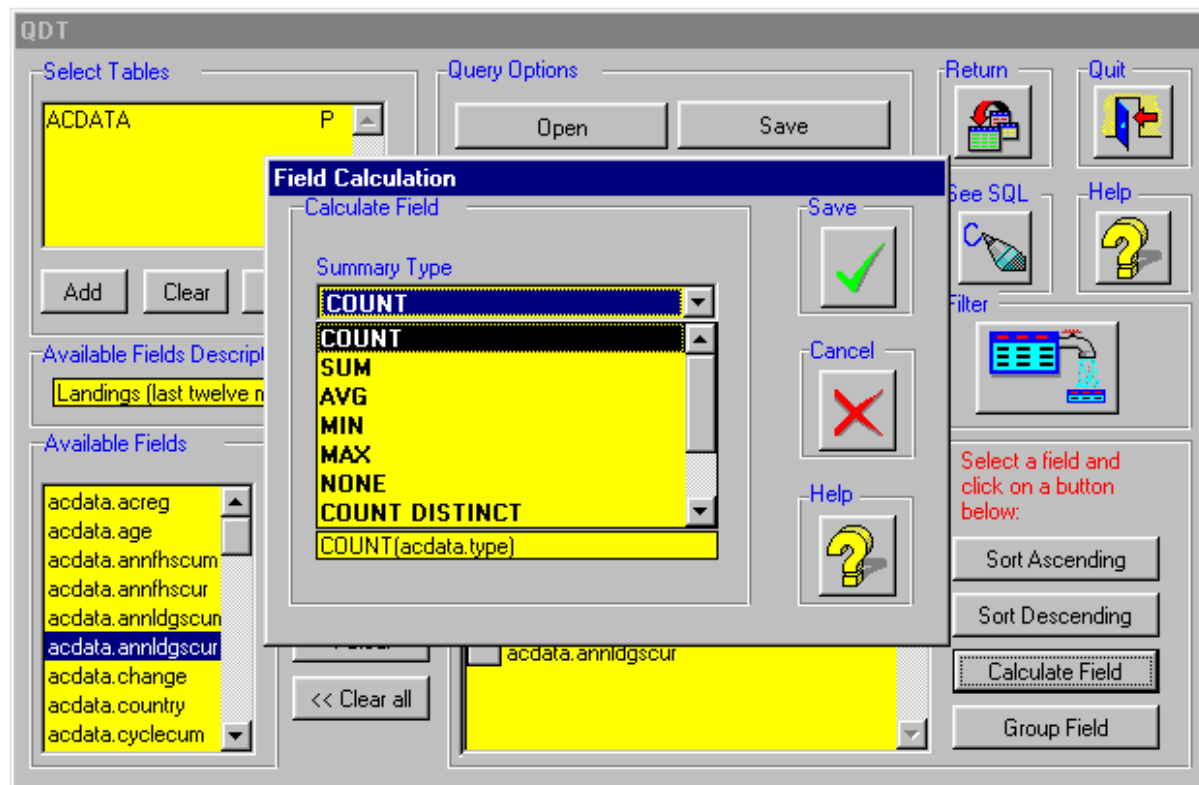
To produce a Count of the number of records in the data file for your selected field, e.g. the number of 747 aircraft in service, select COUNT.

To produce a Count of the number of 747 operators, or the number of engine types in use on 747 aircraft etc, select COUNT DISTINCT

Select from the list and then click on Save. To deselect or change the calculation, click on Calculate Field again and either change the Summary Type or select none to remove the calculation altogether.

Selecting Aircraft or Filtering Records

click on the Filter icon in the Filter box and then select the data field you want to filter, e.g. ACDATA.TYPE (click on HELP for a description of each data field) Then click on Field Value and a list of aircraft types will appear. Select the type you require.
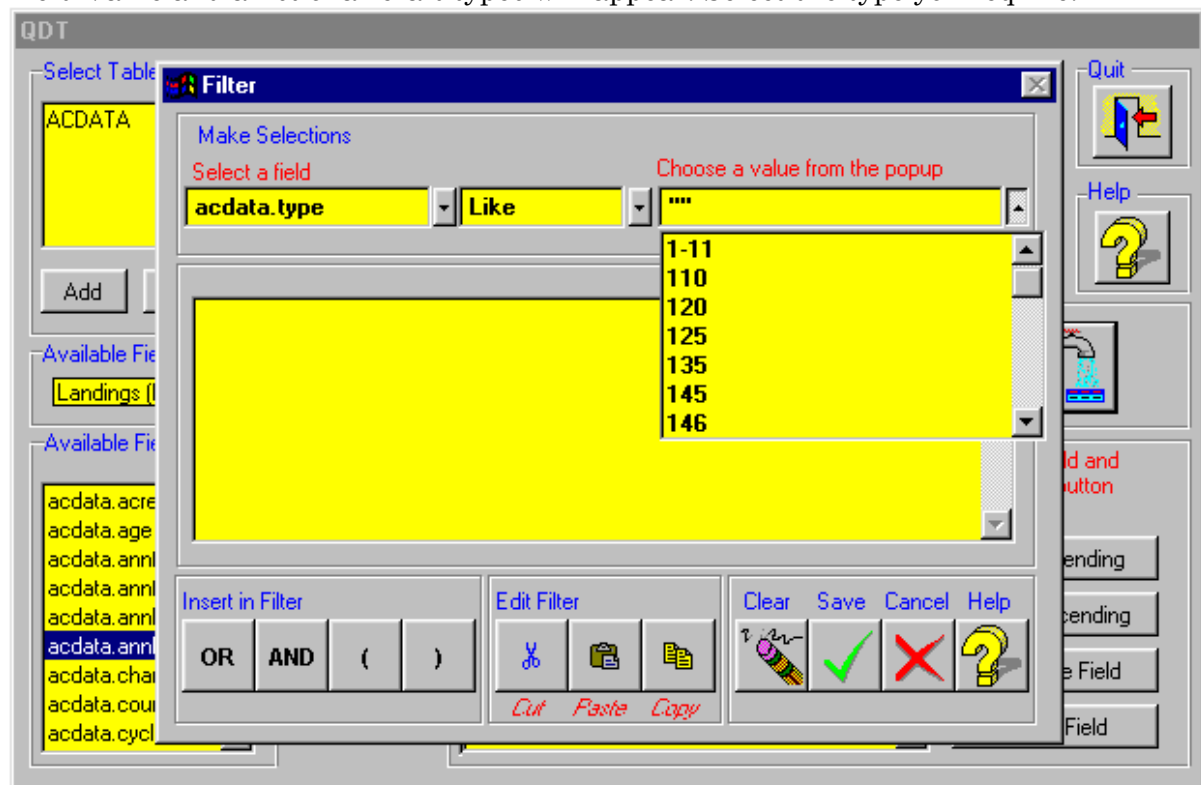
By default, the middle box will display 'like'. Click on this box to see the other choices.
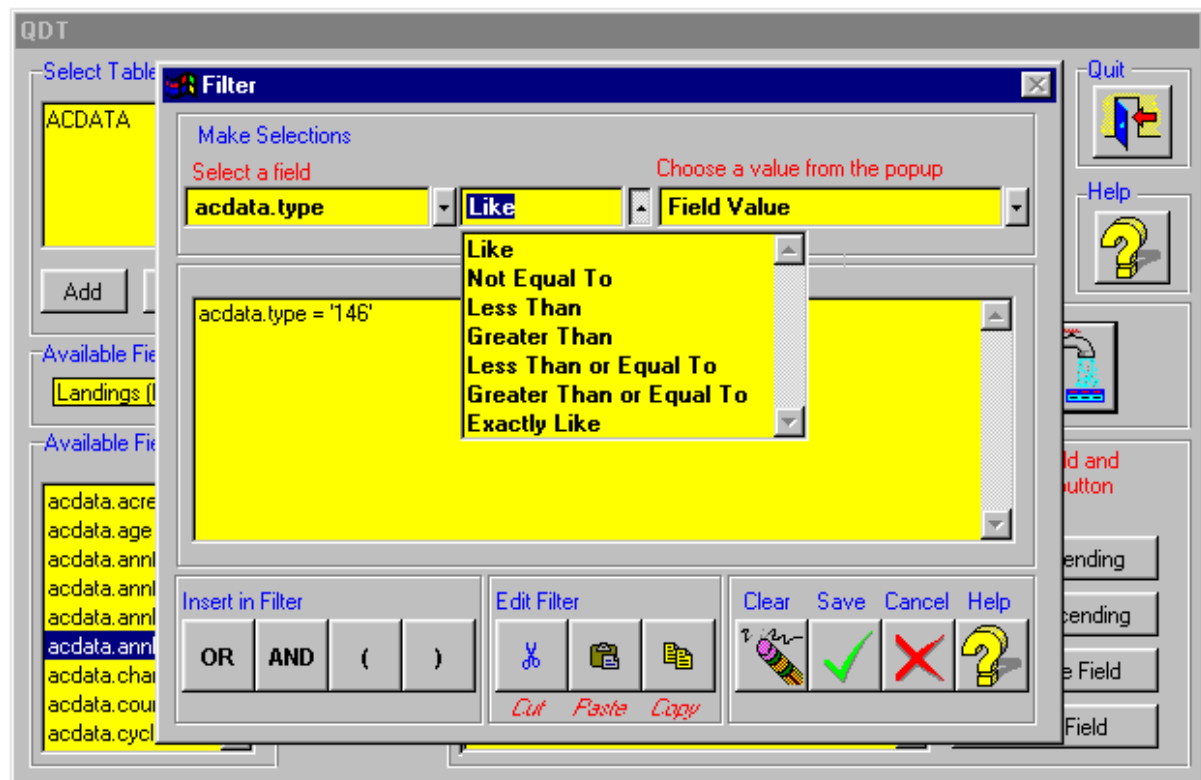
Multiple Selections - When to Use 'AND' and When to Use 'OR'

You may select as many types, models, engines and/or world regions as you like, but you must insert the correct Filter Insert between each selection, either **'AND'** or **'OR'**

If you selected for example ACDATA.TYPE='146' and then selected ACDATA.MAINREG='A - Europe (including CIS)' you would see the following screen:
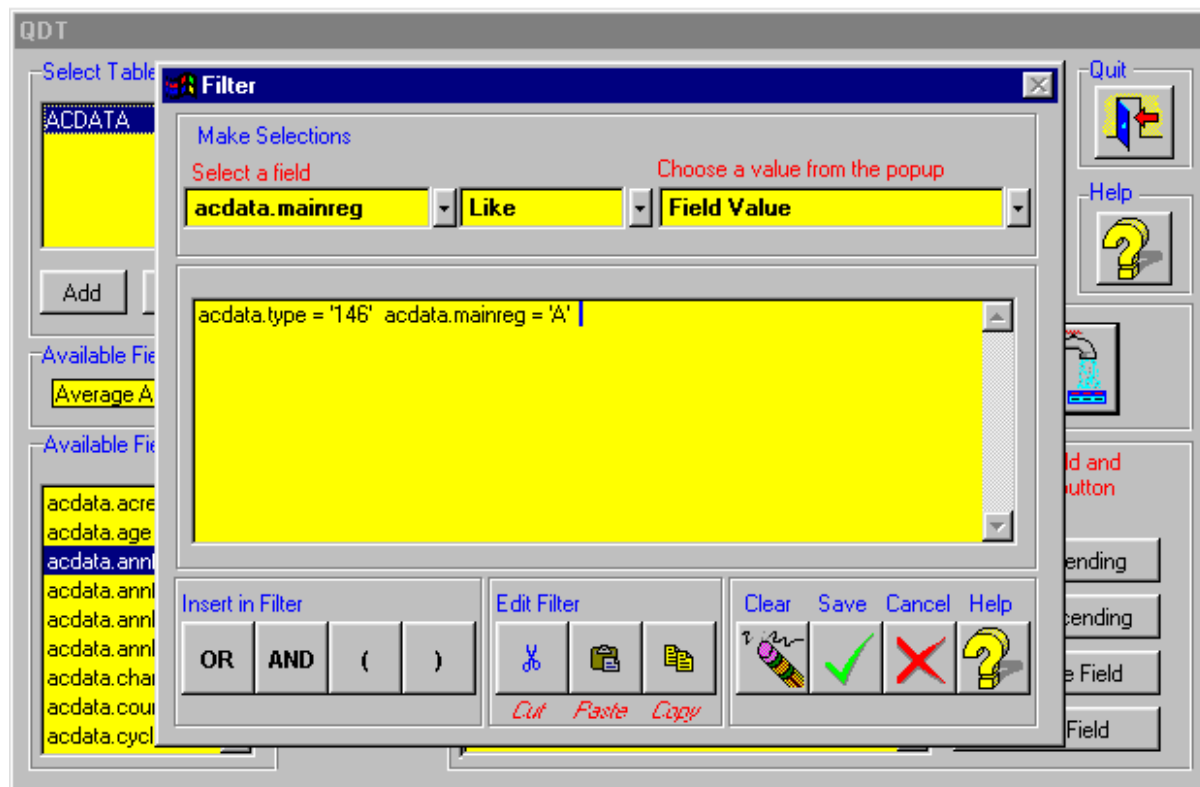
NOTE: if you Save the above statement without inserting an 'AND' or an 'OR' and you Run the Query, an error message will be generated and you will be returned to the Filter Screen to correct the error.

➔ To select just 146 aircraft in EUROPE, place the cursor between the two statements and click on 'AND' in the Insert in Filter box
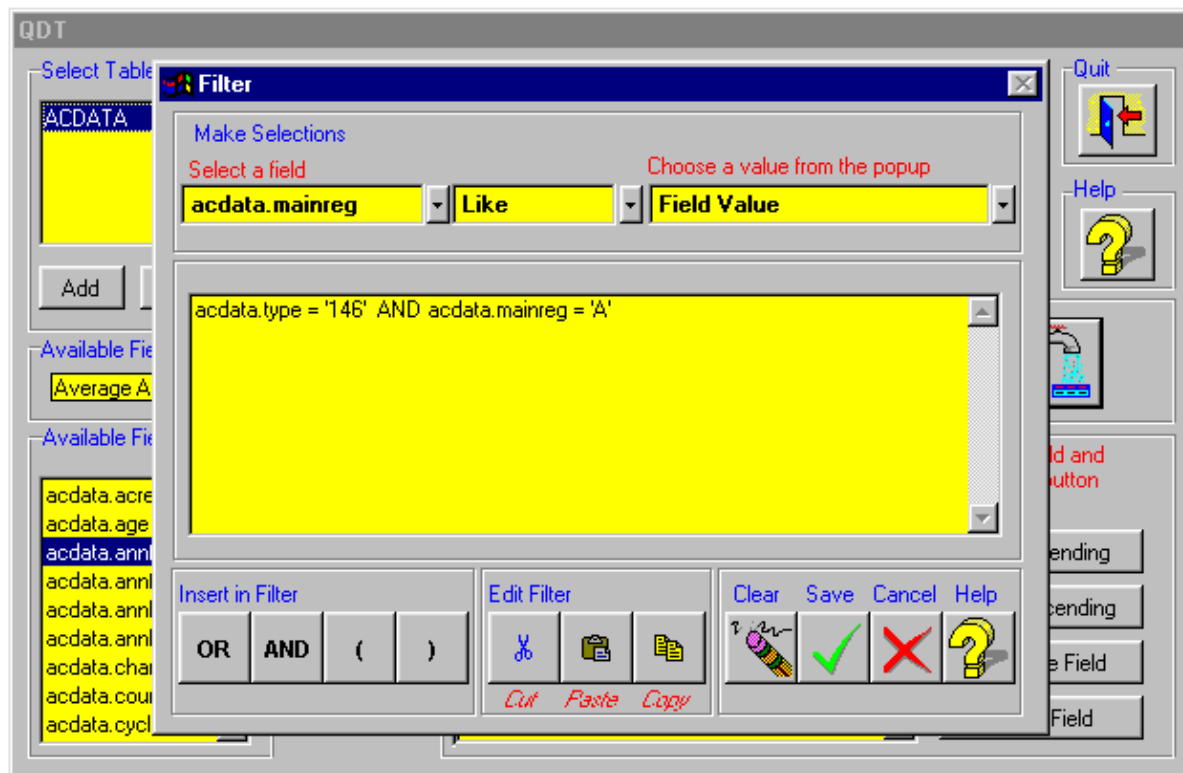
➔ If you wanted to select a series of Aircraft Types and Models, for example, 146 and 737-800, you will need to insert 'OR' between each statement because no aircraft can be a 146 AND a 737-800 at one and the same time.
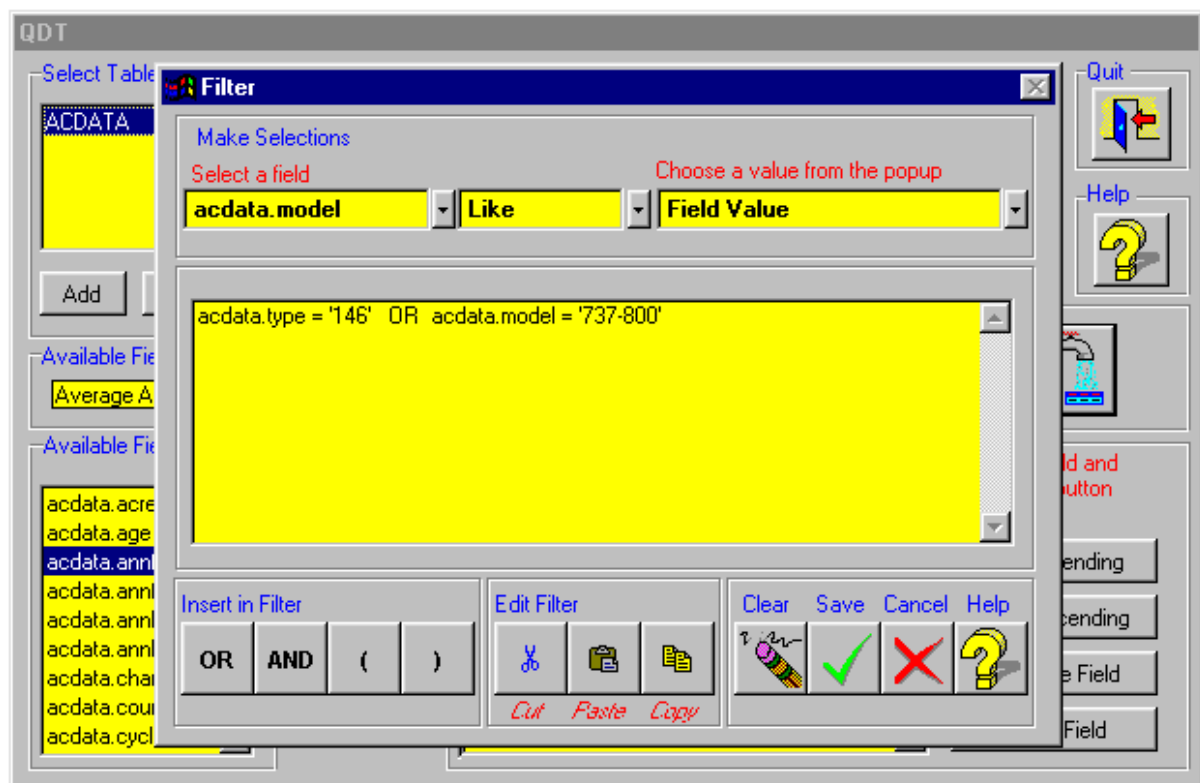
Multiple Selections - When to Use Brackets

If you want to select a series of aircraft types in one world region insert the **bracket** (in the Insert in Filter box) as follows:
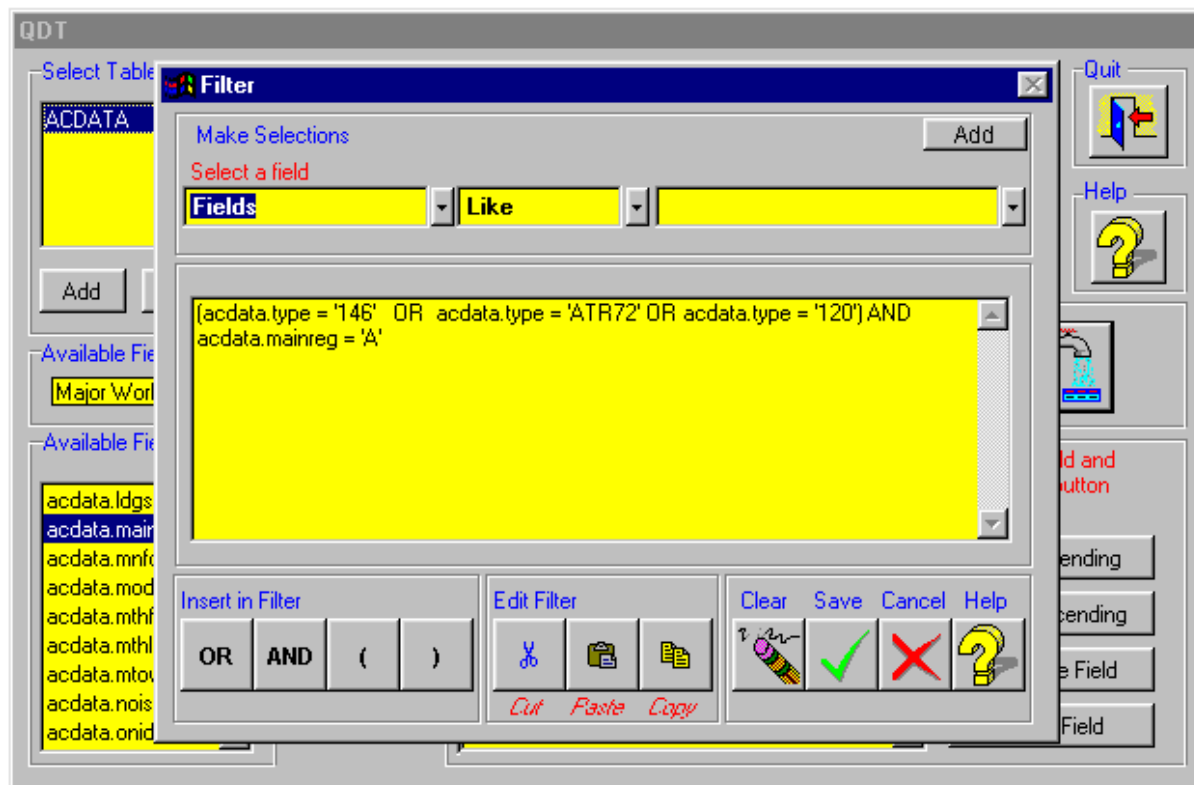
➔ If you want to select a series of aircraft types powered by one engine manufacturer in one world region insert the **bracket** (in the Insert in Filter box) as follows:
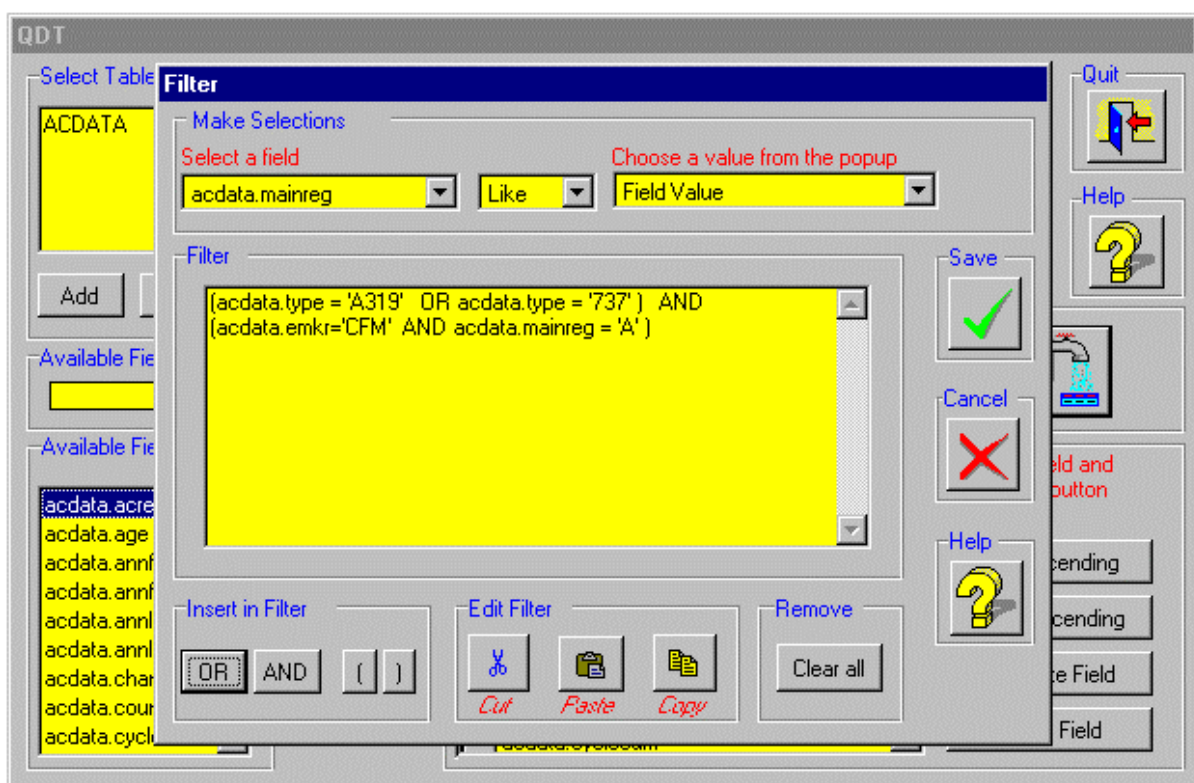
➔ Use the Edit Filter box to amend your Filter statement - highlight the part of the statement you want to amend and then click on Cut, Copy or Paste - you may also type directly in the Filter box.

NOTE: ACAS character fields (e.g. OPERATOR) are all Upper Case - the Filter Statement is case sensitive!

Output Format

➔ When you have completed the Query, select your Output Format - Browse to the Screen, Spreadsheet or DBF export and click on the Run Query traffic light. An example of Browse screen output is shown below. To print the Browse Report, click on File and then Print.
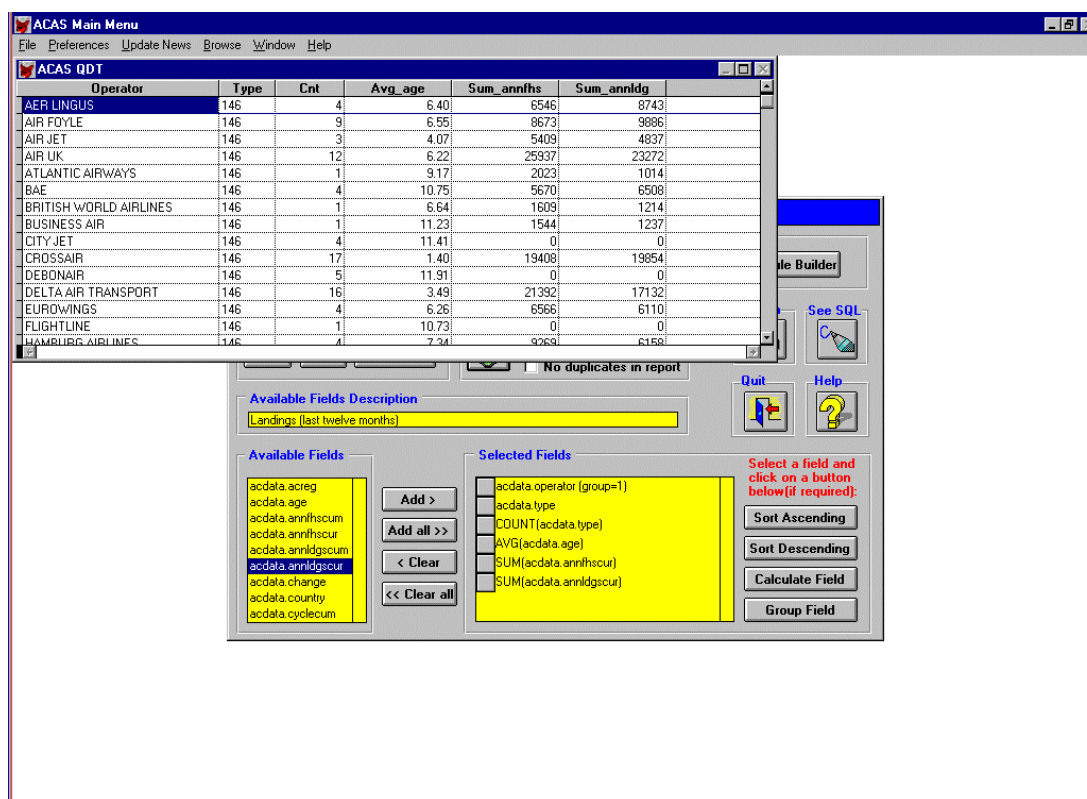
Saving a Query

- to save your query for future use and amendment, click on Save in the Query Options box and then change the name 'Untitled.QDT' to a meaningful name with the QDT extension.
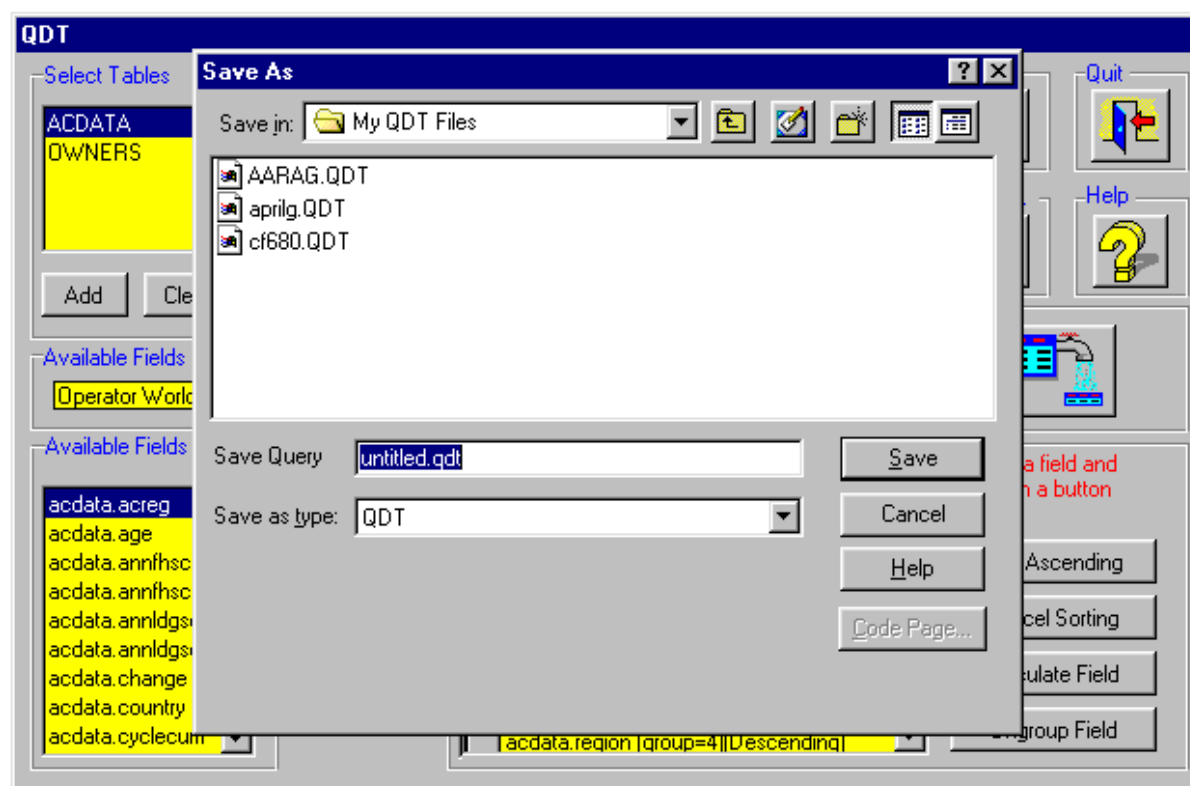
➔ and then enter a description of the Query on the next screen
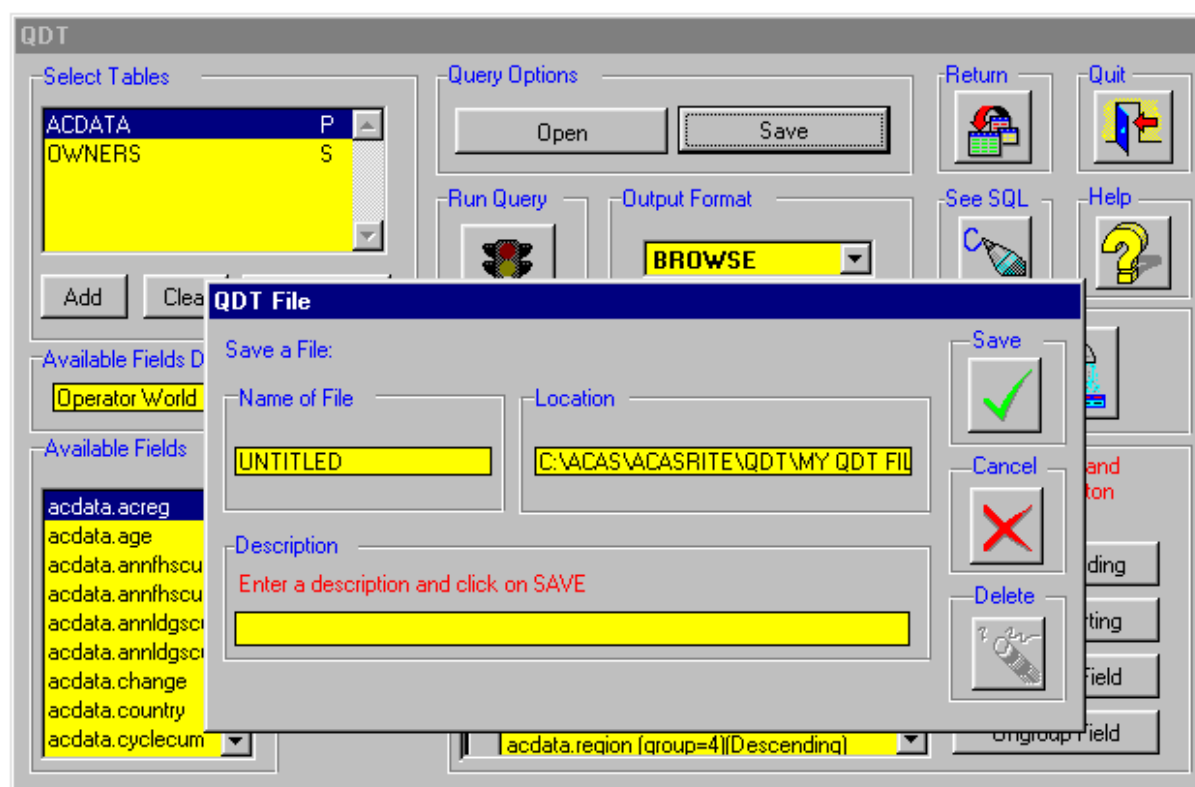
Opening a Saved Query

➔ Use the Open button to open a previously saved Query. This will open the query itself, as opposed to the data associated with the query; just click on the traffic light after opening the Query and the latest available data will be presented.

Importing a QDT File

➔ On the Open a File screen, click on "Import QDT File" to import a QDT file sent to you by AvSoft Technical Support or from a colleague on the ACAS Network and then enter your own description of the Query.
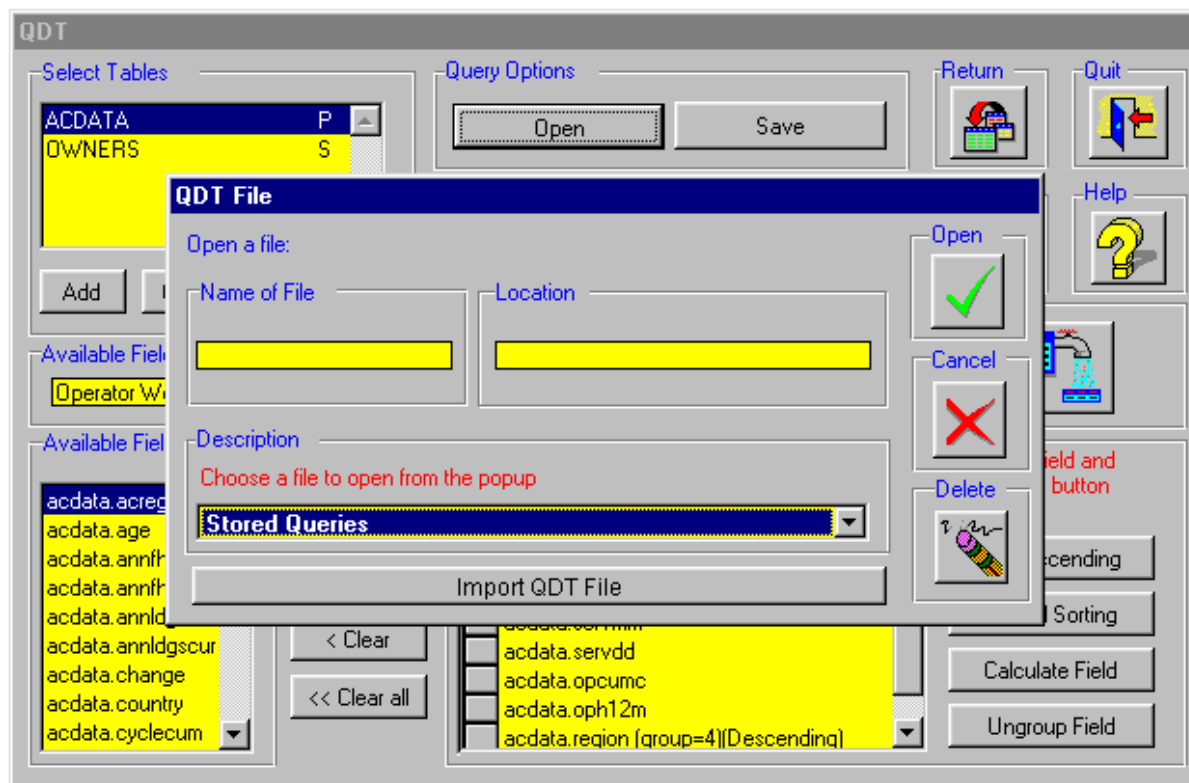
Sample QDTs

Several examples of QDTs are supplied in the Sample QDT Files sub-directory - to open the Sample QDTs, click on Import QDT File and change directory to Sample QDT Files; select one of the QDT files and click on Open. When you have run the QDT, click on Save and then enter your own name for the file. The file will then be available in the Stored Queries list.

Using More than One Data File

➔ Adding more than one Data Table - to add another table, click on Add in the Select Tables box and the Open Screen will appear - select another file to add to ACDATA.DBF (e.g. ADDRESS.DBF) and click on Open.

Joining Fields

The screen will then change (see over) to allow you to select a common field in both tables to allow QDT to join the files - **operator** is usually a good choice.

In the example below where ADDRESS.DBF has been selected as the Secondary file to add to the Primary file ACDATA.DBF, click on the Field down arrow and cursor down the list of fields to address.operator; then select address.operator by clicking on it or pressing Enter and address.date will change to address.operator. Repeat the process for the ACDATA Field.

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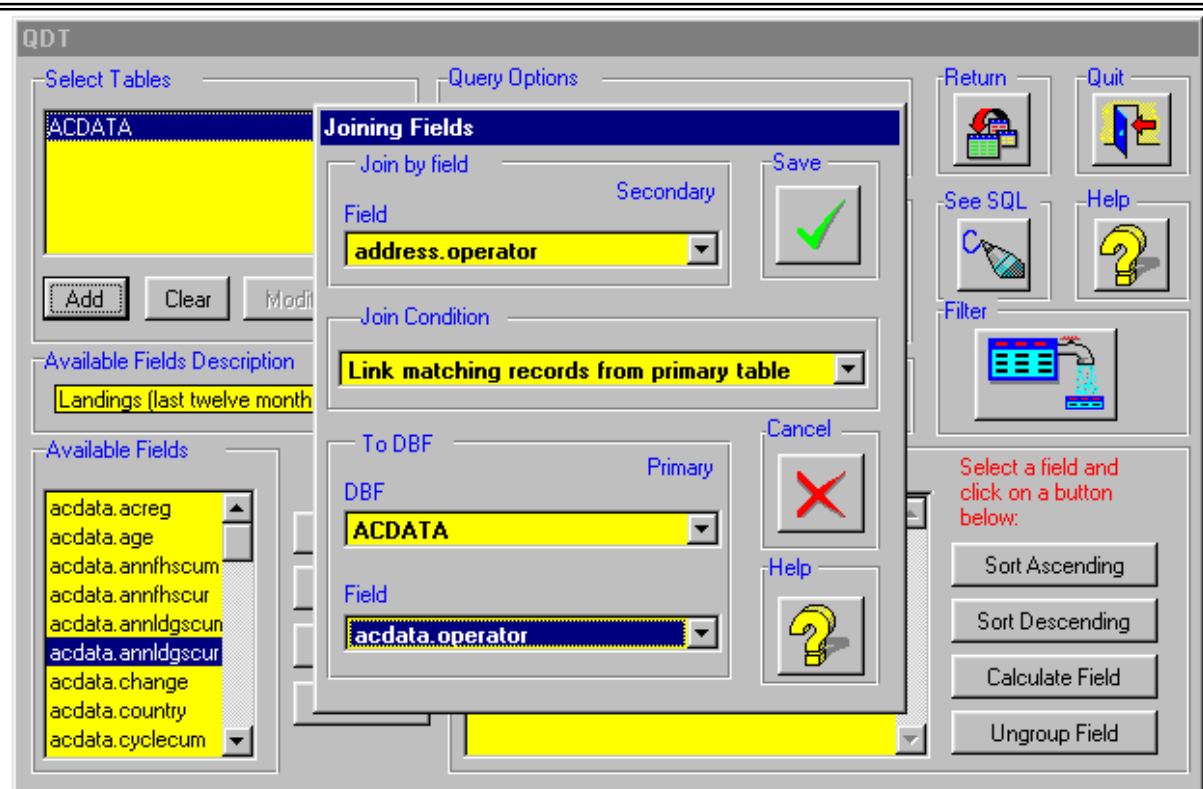
Join Condition

The Join Condition controls which records are shown from each file. In the majority of cases, the default Condition: "Link matching records from primary table" will be the correct choice.

To see the choices available with the Example Query below, click on the down arrow next to "Link matching records from primary table" and the screen will look like this:
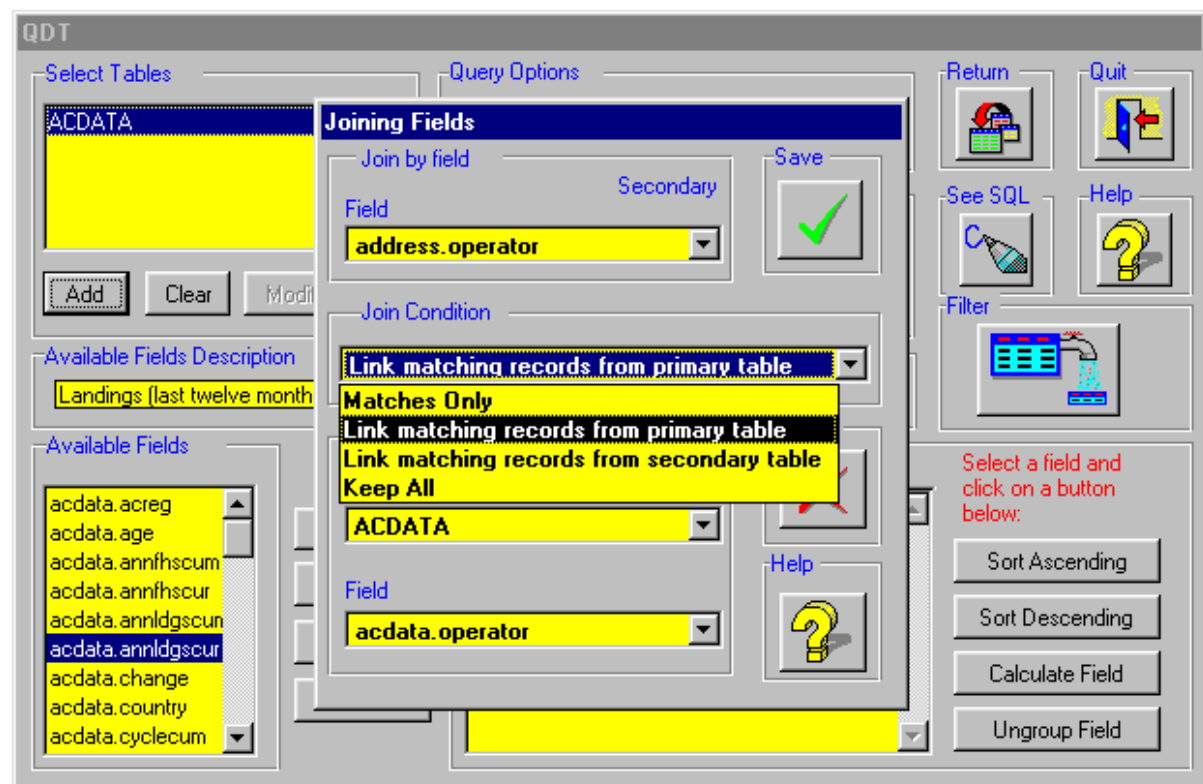
Example Query:

Primary Table: ACDATA.DBF
Secondary Table: ADDRESS.DBF
Aircraft Type: 777

Purpose of Query: to show all 777 operators together with a count of aircraft per operator and the name, title, telephone and email address of the Chief Operating Officer of each operator.

Link matching records from primary table

In the Example Query, this join condition will show all 777 operators from ACDATA.dbf and matching records from ADDRESS.DBF. Thus, if there wasn't a Head Office Address record in ADDRESS.DBF to match an operator in ACDATA.DBF, the Operator and Count of Aircraft would still appear, but with no data from ADDRESS.DBF

Link matching records from secondary table

This join condition will produce the reverse of the above showing all records for the secondary file.

Matches Only

In the case of this Join Condition, if there were 30 777 operators in ACDATA.DBF but only 27 matching operator address records in ADDRESS.DBF, the result would only show the matching 27 records; such a result can be misleading, of course - possibly leading you to believe that there are only 27 777 operators.

Keep All

In this case, let's say that ACDATA.DBF contains 1500 records and ADDRESS.DBF contains 1000 records, of which 800 have matching records in ACDATA.DBF. If you select the "Keep All" Join Condition, you will see all records from each file.

ACAS

Optional Modules

Product Tracker

Aircraft Values

Aircraft Availability

Time-Series

To order any ACAS Optional Module

please contact: Tim Fuller
                       Sales and Marketing Director

                       Tel: (44) 1788 540898 or 1-800 926 3174 (US Only)
                       Fax: (44) 1788 540933
                       Email: TFULLER@AVSOFT.CO.UK

ACAS - Product Tracker V2.0

The easy way to track components and services

Product Tracker is an optional program module for the ACAS aviation market information system from AvSoft.

Product Tracker allows you to define an unlimited number of products with a product description, part number, quantity per aircraft, values (including Fault Found and No Fault Found), intervals and events and then 'tag' them to individual aircraft or groups of aircraft.

Benefits:

✔ Forecast Component Removals/Parts Requirements by Product/ATA Chapter
✔ Mailshot Aircraft Operators by Product
✔ Track Component Populations
✔ Feed Movements to your Sales/Product Support team
✔ Track Market Share
✔ Track/forecast power-by-the-hour/cycle income streams

Features:

♦ Allocate unlimited products per aircraft
♦ Tags remain with the aircraft even if the aircraft changes operator or owner
♦ Report on the aircraft by tag (product) type in addition to the usual ACAS multipicks
♦ Tags can represent any item chosen - not necessarily a product (eg configuration)
♦ Data is confidential to the user and is password protected
♦ Easy to maintain with new deliveries and transactions button
♦ Wide Area Networking (WAN)
♦ 3 Forecasting Models - Hard Time, Soft Time, Probability
♦ No Fault Found breakout
♦ Group Products into Kits
♦ Set up Standard Fit Lists
♦ Individual Unit Serial Numbers
♦ Edit Future Delivery Schedules
♦ Link to Contact Manager for Mailshots

Schematic:

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Contents

Installation Instructions

Note:- You can only run Product Tracker V2.0 as client server on a Windows 95/98 or NT machine.

Stand Alone Installation

1. At the machine insert the Product Tracker V2.0 CD.
2. If the CD does not automatically run go to the start menu and Run x:\setup where x is the drive letter of your CD.
3. Select the Stand Alone option and click on the OK button.
4. Read the Welcome Screen and then click the Next button.
5. Select where you wish to install Product Tracker V2.0 by clicking on the browse button.
6. When the destination folder is correct click on the Next button.
7. Select where ACAS is installed by clicking on the Browse button.
8. When the destination folder is correct click on the Next button.
9. Select the program manager group where you want the start icons to go. (Default is AvSoft)
10. Click on the Next button.
11. When you are ready to install Product Tracker V2.0 click on the Next Button.
12. Click on the Finish button when all the files have been installed.

Server Installation

1. At the server machine insert the Product Tracker V2.0 CD.
2. If the CD does not automatically run go to the start menu and Run x:\setup where x is the drive letter of your CD.
3. Select the Server option and click on the OK button.
4. Read the Welcome Screen and then click the Next button.
5. Select where you wish to install Product Tracker V2.0 by clicking on the browse button.
6. When the destination folder is correct click on the Next button.
7. Select where ACAS is installed by clicking on the Browse button.
8. When the destination folder is correct click on the Next button.
9. When you are ready to install Product Tracker V2.0 click on the Next Button.
10. Click on the Finish button when all the files have been installed.

Client Installation

1. At the machine you want to use Product Tracker V2.0 as a Client.
2. Open Windows explorer.
3. Navigate to the directory on the server machine where Product Tracker V2.0 was installed.
4. Double click on a program called Client.exe.
5. Read the Welcome Screen and then click the Next button.
6. Select where you wish to install Product Tracker V2.0 by clicking on the browse button.
7. When the destination folder is correct click on the Next button.
8. Select where ACAS is installed by clicking on the Browse button.
9. When the destination folder is correct click on the Next button.

Client Installation (continued)

10.   Select the program manager group where you want the start icons to go. (Default is AvSoft)
11.   Click on the Next button.
12.   When you are ready to install Product Tracker V2.0 click on the Next Button.
13.   Click on the Finish button when all the files have been installed.

Note: If your network does not support TCP/IP go to the directory where Product Tracker V2.0 was installed and run Racmgr32.exe. Select avserver.server from the list of Com Classes. On the Server connection tab select the right network protocol from the available list box.
Click on the Apply button and close the application.

Starting Product Tracker: Log on screen

To Log onto Product Tracker V2.0:-

1. Double-click on the Product Tracker Desktop Icon:
2. Enter your name. (case sensitive) - default is Administrator
3. Enter your password.(case sensitive) - default is: **Tracker**
4. Enter your department name.(case sensitive) - default is Main
5. Click on the Log on button.

The Main Product Tracker screen will then appear:-
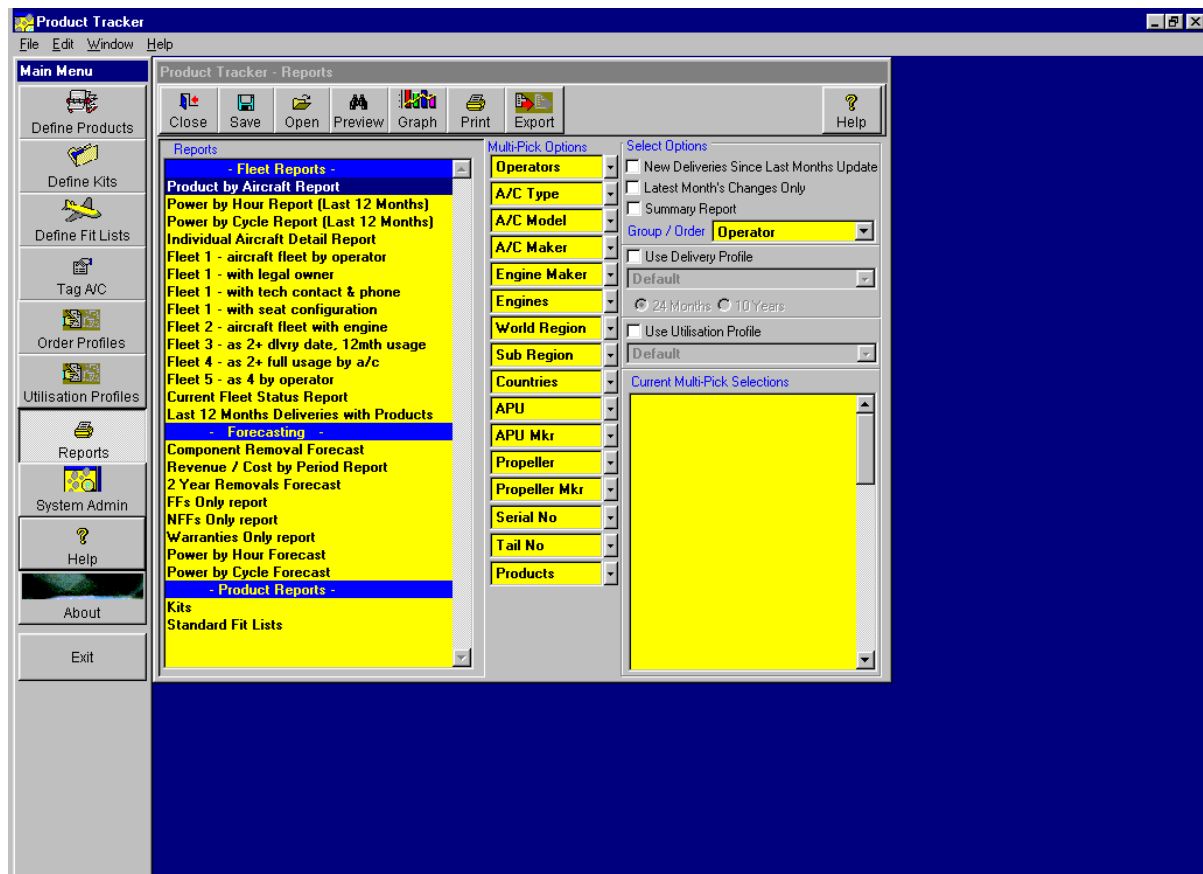
System Administration/Security (Optional)
From the Main menu select "System Admin"

Administration allows you to edit user rights, add new users, delete old users and back up the ACAS Product Tracker data.

To add a new user
1.   Click on the button.
In the Add New User screen:-
2.   Type in the users name.
3.   Type in the users password.
4.   Type in or Select the department
5.   Click on the OK button
6.   Check the relevant boxes.
7.   Click on the Update User button.

To delete a user
1.   Type in the users name or select it from the list
2.   Type in the users department or select it from the list.
3.   Click on the Delete button.

To change a users rights
1.   Type in the users name or select it from the list
2.   Type in the users department or select it from the list.
3.   Check/un-check the relevant boxes.
4.   Click on the Update User button.

To change the users password or department
1.   Type in the users name or select it from the list
2.   Type in the users department or select it from the list.
3.   Type in the new password or department.
4.   Click on the Update User button.

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Define Products

From the Main Menu Screen click on Define Products.

The Define Products Screen allows you to set up default product information that will be used in tagging products to aircraft.

Note
If you change product information after it has been tagged to an aircraft then the product information for those tags do not change.
If you have more than one product of the same part number with different removal times tagged to an aircraft then we suggest that you create a serial number for each item and tag them separately. This allows you to track individual items.

The following pages present the functionality of each section of the screen

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Define Products - Product Serial Numbers

To add a new serial number for a product

Click on the Edit button
Click on the ⊞ sign
Type in the new serial number.
Type in the First Date In Service.
Click on the Add button.
The new serial number will appear in the product serial numbers list.
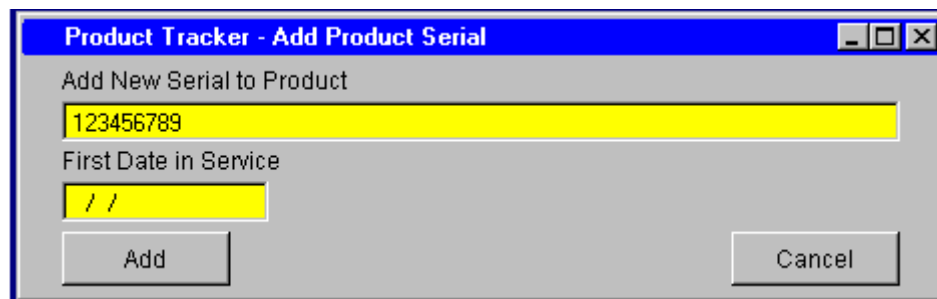
To delete a serial number

Highlight the serial number that you wish to delete.
Click on the ⊟ sign

Notes:-
You can add as many serial numbers for each product as you like. This allows you to track individual products.

"Not Applied" is the default serial number for all parts. When you tag a product to an aircraft, the default values are copied to the tag of that product on that aircraft.

Define Products - Reliability

There are 3 methods for forecasting removals.

1. Hard Time - for components with a hard life e.g. Landing Gear

2. Soft Time - for components maintained on-condition with random removal patterns

3. Probability - for components maintained on-condition with experience of removal patterns

Hard Time

Extrapolation of the use of each aircraft against a fixed interval - the screen example shows the process of Adding the Hard Time Life for a Main Landing Gear of 7000 cycles or 84 months with a 5% URA (Unscheduled Removal Rate) and a 10% No Fault Found rate.

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Define Products - Reliability (continued)

Soft Time

Soft Time simply takes a pool of utilization and divides it by the Mean Time Between Unscheduled Removals (MTBUR)

Define Products - Reliability (continued)

Probability

With probability the user defines the probability of removal per year.

The Probability method allows you to enter different probabilities of removal for different periods during the component's life.
This allows the forecast to more accurately reflect real-life infant mortality, improved reliability with increasing maturity and then greater unreliability as the component becomes geriatric and produces what is commonly known as a "bathtub curve" forecast

Define Products - Value Data

For each product you can specify value data by percent or by value.

To specify values by percent :-
      Check the "By Percent" box
      Type in a Total value for cost and revenue
      Then use the % to adjust the amounts for Labour and Materials
To specify values by value :-
      Check the "Select By Value" box
      Type in the amounts in the relevant fields.

Removals
Values relating to the removal of the product.

NFF's
Values relating to a No Fault Found.

FF's
Values relating to Faults Found.

	Removals		NFF's			FF's	
☑ Select by Value ☐ By Percent							
Manhours	Revenue Rate/Manhour		Cost Rate/Manhour			Margin Rate/Manhour	
500.00 ✗	60.00	%	20.00	%		40.00	
Labour	30000.00	85.71	10000.00	80.00		20000.00	
Materials	5000.00	14.29	2500.00	20.00		2500.00	
Total	35000.00		12500.00			22500.00	

Note
The 3 values work independently of each other so you can use any combination you require.
The margin columns are automatically calculated.

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Define Products - Other Screen Functions
First Date in Service

This is the date that you want the reports to start forecasting from for this product.

Note.
If this field is left blank the reports will forecast removals from when the aircraft was new.

Quantity per Airframe and/or Engine

Edit the number of products per airframe and/or per engine.

Power by the Hour or Cycle Rate
Enter a Value in this box
Warranty Period
Enter relevant values
Screen Controls - Find

Product Tracker - Find

Part Number

Part Name

707 Load Controller
707/727 BCU
707/727 GCU
707/727 Generator
707/727 Generator (976J119)
707/727 Generator DJ
707/727/737 Generator
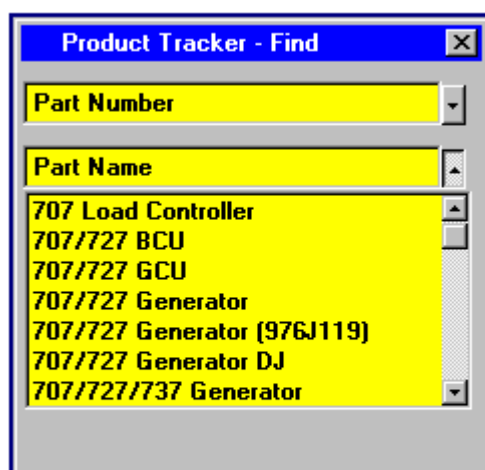
Go directly to a product by selecting it from a list of Part Numbers or Part Names.

Screen Controls - Renum

Renumber a product.

To renumber a product click on the Renum button, type in the new number in the Part Number field and click save. This will renumber the product in all of the ACAS Product Tracker files.

Define Products - Other Screen Functions

Record Navigation

‹ Go to the prior record

› Go to the next record

▶| Go to the last record

|◀ Go to the first record
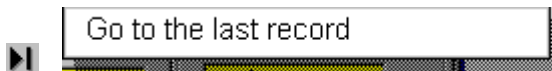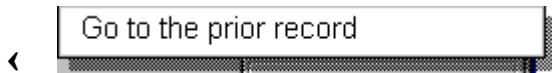
Define Kits

From the Main Menu Screen click on Define Kits.

Kits allow you to group products together and tag them to aircraft as though they were one product.

Note.
Clicking on the column header will order the parts list in that order.

Creating a new Kit
1.   Click on the New Kit button.

2.   Fill in a new part number for the kit.
3.   Fill in a new description for the kit.
4   Click on the OK button.
5   When the Define Products screen is displayed, fill in the details, Click the save button and then click the Close button.

You then need to add some parts to the kit.

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Define Kits (continued)

Adding new parts to the Kit

    1   Click on the Add Part button.
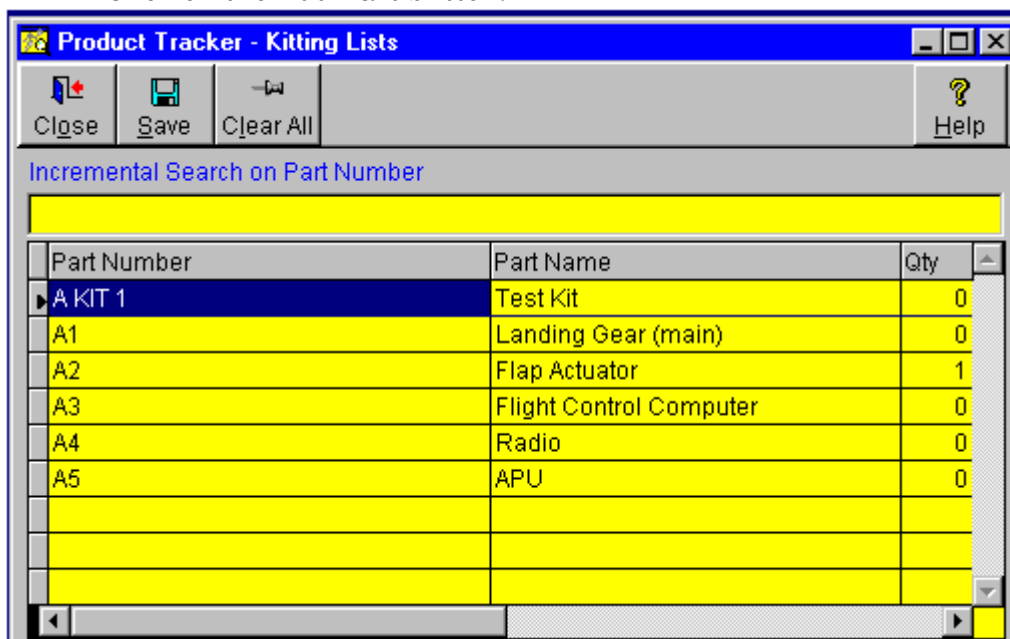
    2.   Fill in the Qty's for each part in the kit.
    3.   Click on the Save button.
    4.   The parts where the qty is greater than 0 will be added to the kit.

Note
Any changes that you make are automatically saved.
By clicking on the column headers you can order the list in that order and incremental search on that column..

Find a Kit

Click on Find

Add parts to a Kit
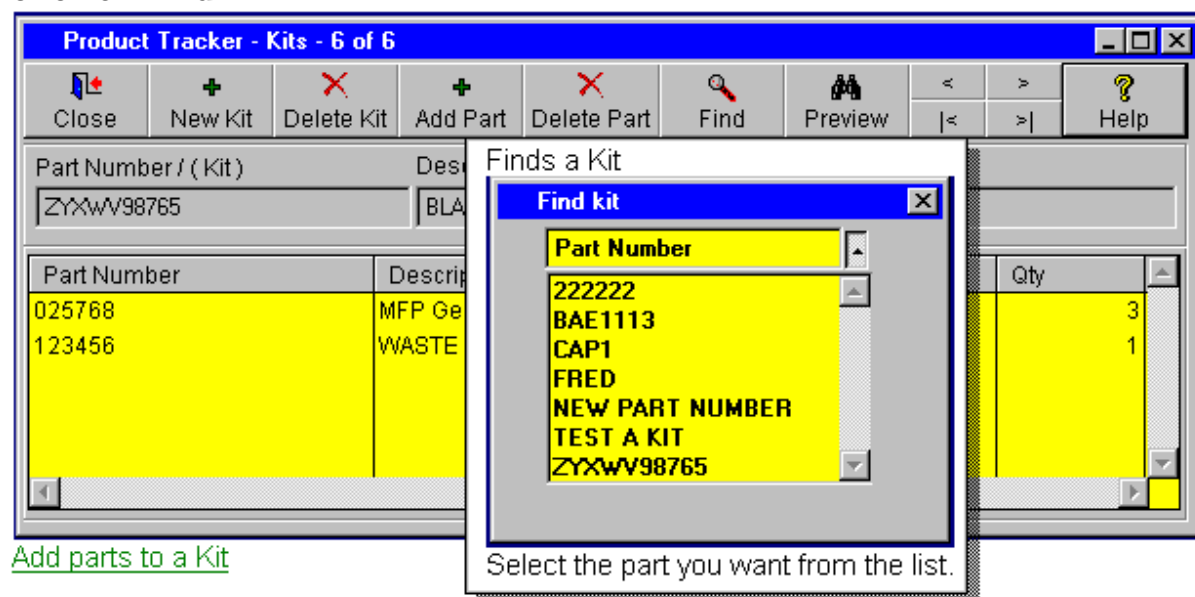
Define Fit Lists

From the Main Menu Screen click on Define Fit Lists

Click on New Fit to Add a New Standard Fit

Define Fit Lists (continued)

Adding a part to the Standard Fit

      1.   Click on the Add Part button in the Define Standard fits screen.

      2.   Select the part you want to add from the drop down list.

      3   Change the quantity values as necessary.

      4.   Click on the Save button.

Notes

If you change Qty per Airframe or Qty per Engine then any aircraft that you tag with this standard fit will reflect those quantities instead of the default quantities set up in the Define Products screen..

Any changes that you make are automatically saved.
Clicking on the column headers will sort the parts list in that order.
Clicking on the buttons 'Operator', 'Model', 'Engine' will order the fit lists in that order.

Tag Products to Aircraft

Create a selection and click on the Tag Aircraft button.
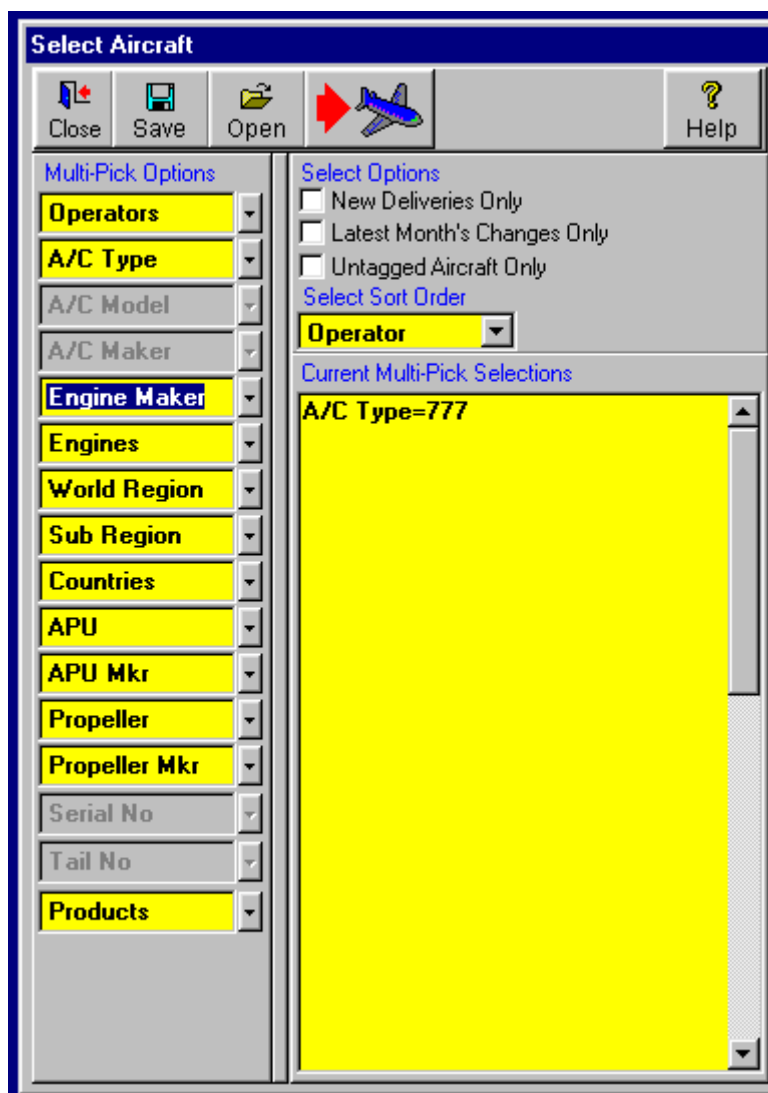
You can save your selections for future use by Clicking on Save and then entering a relevant name.
To open the saved selection, click on Open.

Tag Products to Aircraft (continued)

Browse Aircraft Tags

To tag aircraft click on the Tags Button and then check the required Parts
Note. Clicking on the column header will order the parts list in that order.
Any information you edit for individual tags are only relevant to the selected part and aircraft.

 Tag Products to Aircraft (continued)

Then click on Overwrite All if you want to overwrite any existing tags with the new parts selection
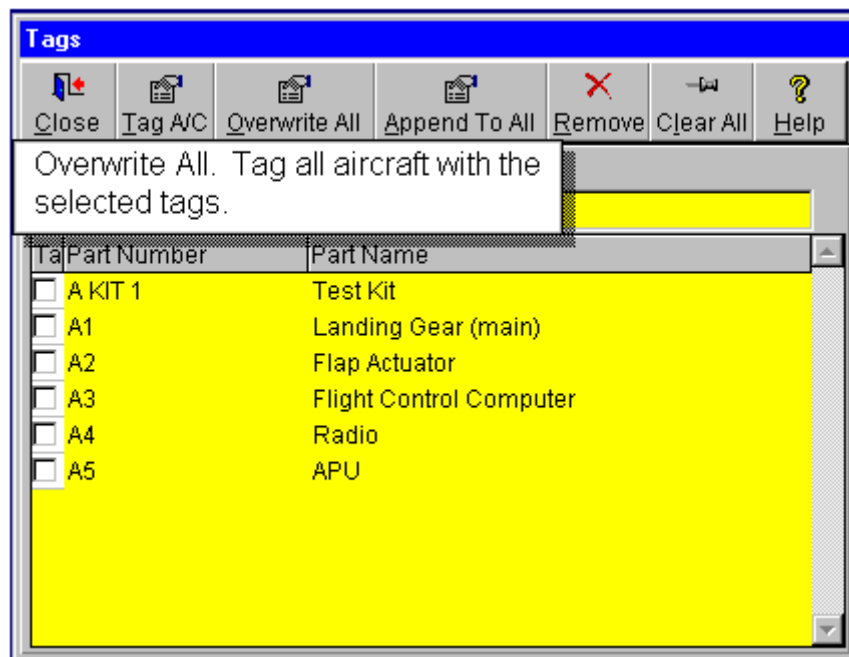
or, click on Append to All if you want to add the selected parts to existing tags on the aircraft
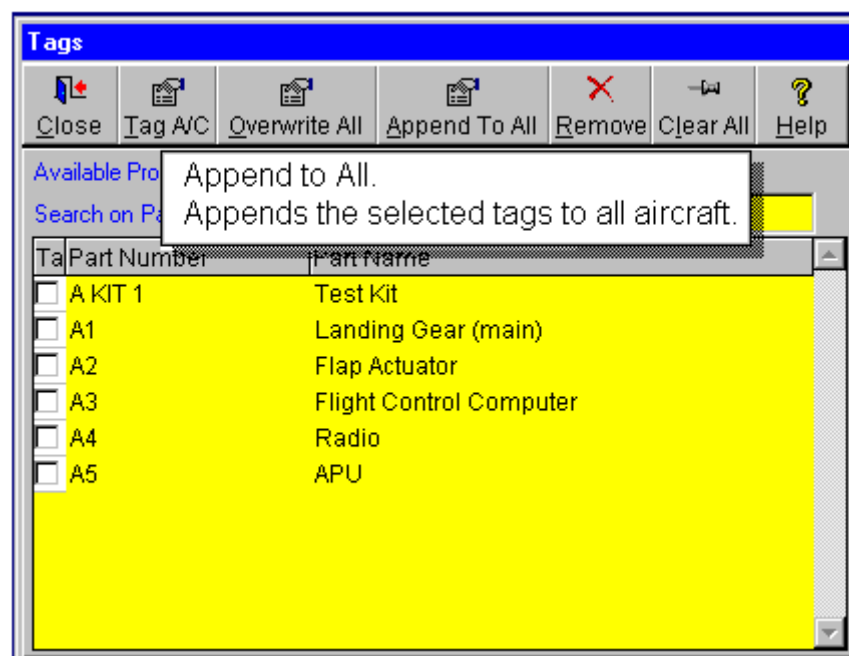
Tag Products to Aircraft (continued)

Other Screen Controls
A/C Notes - click on A/C Notes to add notes to a selected aircraft

A/C History
click on A/C History to see the transaction history of the aircraft

Create/Edit Utilisation Profiles

Utilisation profiles are used in forecasting.

Here you can change the hours and cycles for groups of aircraft to model a forecast in a particular way and save them for future use.

For example you might want to see the impact on removals of increasing the annual flying hours of a particular fleet.

Equally, you can add Annual Hours and Cycles to aircraft where Avsoft supplied hours and cycles data is incomplete i.e. Business Jets and Military Transports.

Operator	Model	Hours	Cycles
11 23 AIR INC	IAI1123	3.00	0.00
1123 LLC	IAI1123	0.00	0.00
12098 LLC	SABRE 75A	0.00	0.00
125TB LLC	125-1A/521	0.00	0.00
127 GT CORPORATION	LEARJET 55	0.00	0.00
132AP AVIATION INC	FALCON 20F	0.00	0.00
1897 CORP	125-800XP	0.00	0.00
1904 LLC	LEARJET 31A	0.00	0.00

Creating a New Profile

1.   Type in a description for your new profile.
2.   Select Empty or a Copy of AvSoft Utilisation.
3.   Click on the OK button

The new profile will appear in the list of available profiles.

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Create/Edit Delivery Profiles

Delivery Profiles allow you to edit existing Avsoft Delivery Profiles where you have better knowledge of an operator's new aircraft delivery schedule or to add deliveries for likely future orders for years beyond the scope of the current orderbook

Note.
To include future deliveries in the Forecasting Reports check the Use Delivery Profile box on the Reports screen and select the delivery profile that you want to use.

If you select Default the reports will use AvSoft's delivery profile.

If you do not check the Use Delivery Profile box no future deliveries are included in the reports.

Add a New Delivery Profile

Click on the New button

Type in a description for this profile.

Select Empty or Copy of ACAS Delivery file

Click on the OK button.

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Reports

There are 3 types of Product Tracker Reports:
- Fleet Reports, showing products by current fleet
- Forecasting Reports, which present forecasts of various product values in the future
- Product Reports, which detail the Part Numbers contained in Kits and Fit Lists

In addition, Contact Manager contains links to Product Tracker so that you can maintain contacts and mailing lists by Product or Part Number.
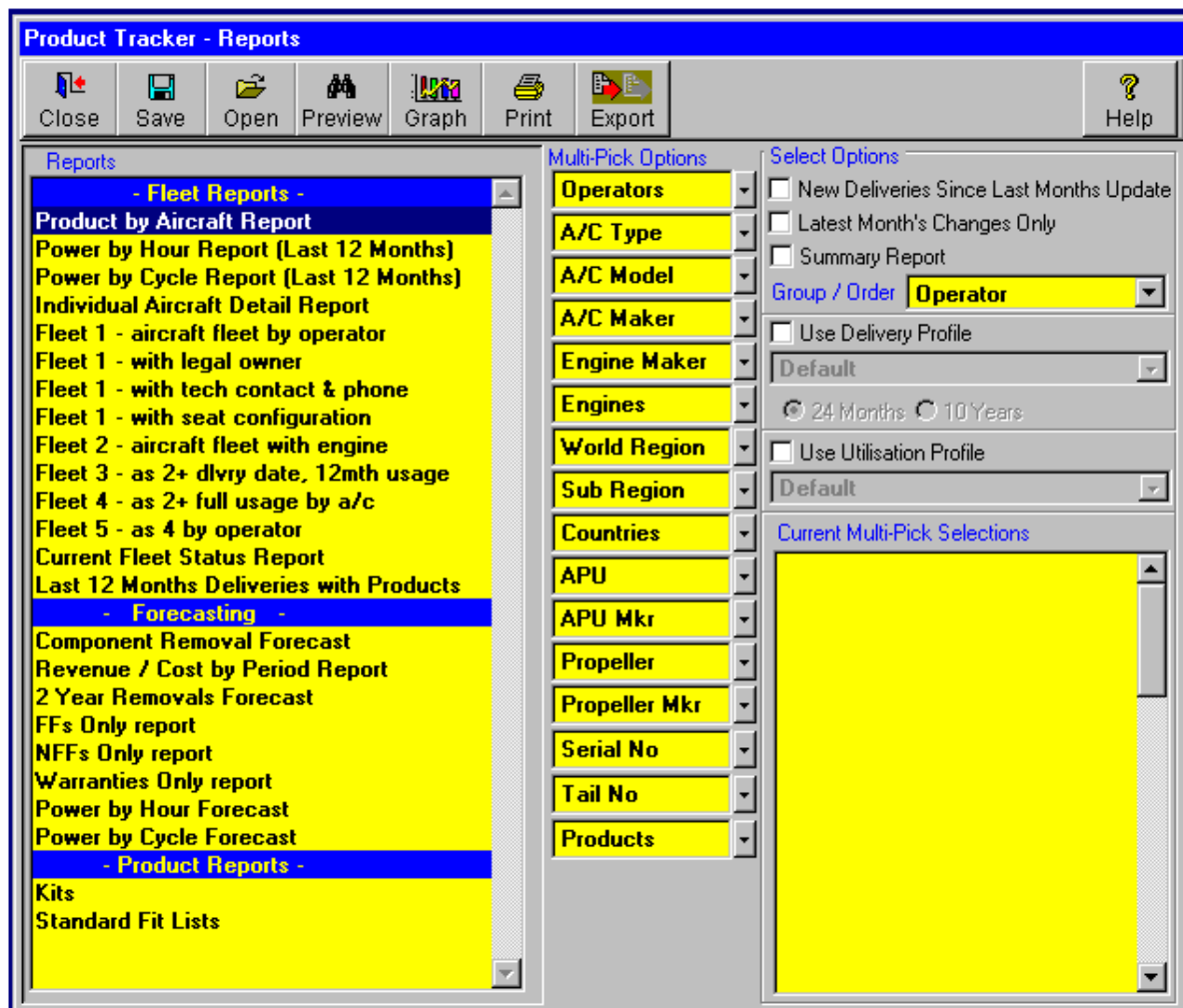
Note.
To include future deliveries check the Use Delivery Profile box and select the delivery profile that you want to use.
If you select Default the reports will use AvSoft's delivery profile.

If you do not check the Use Delivery Profile box no future deliveries are included in the reports.

Forecasting Options

If you click on a Report in the Forecasting Section, the screen changes to show the Forecasting Options.
The Options screen allows you to select a date range by month and year for the Forecast, and to select Forecast Output by Month, Quarter or Year. Price inflation for future years within the forecast can be selected, as can Parked Aircraft, Retirement Policy by Narrowbody and Widebody aircraft types and Warranty Policy. Finally the year of Noise Stage 2 Bans can be selected.

Note.
Before you can run a forecast you need to have created some products with reliability values and tagged them to aircraft.

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How to Create a Forecast (Example 1)

Simple one to begin with, you work for a company that makes Sheepskin seat covers, for seats in the Flight Deck.

You supply every aircraft in the British Airways fleet, and also 146's for Aer Lingus Commuter.

The seat covers do wear out, and will need replacing/overhauling every 15000 flying hours or every 5 years, whichever is sooner.

Step 1; Define the new product (i.e. The sheepskin seat cover).
      Click on Define Products on the main menu
      In the Define Products screen click on the Add a new Part button.

Add a part no. (SSC001) and a description (Sheepskin Seat Cover)
      Select ATA Chapter 25 - Equipment/Furnishings
      Select ATA Section 2510 - Flight Compartment
      The seat covers came out in 1979 so we fill in the 1st Date in Service box as 01/01/1979
      The quantity is 2 per airframe (Captain & First Officer)
      Set the Warranty Period to 12 months
      You also want to add the reliability.
      Click on the + sign next to Reliability.

      In the Add Removals screen

Leave the Start From hours, cycles, months as 0 (From when the aircraft was new)
      Select the Hard Time model tab and add the intervals 15000 hours & 5 years (60 months)
      Click on the Add button.

You can also add the cost of removing/overhauling the part, and the amount you charge for overhauling/replacing the part, this gives you the profit margin.

Save & Close this screen.

There are 2 ways to tag products to aircraft. Firstly by creating a Standard Fit and applying the Standard fit to the aircraft or by tagging each product to the aircraft one at a time.

Define a Standard Fit and add the seat covers
      Go into 'Define Fit Lists'
      Click on the Find button
      Look at the list to see if one already exists for British Airways where the Model and Engine say '*' (the * means any)

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How to Create a Forecast - Example 1 (continued)

If a Standard fit already exists
     Select it and close the browse window.
     The Fit List for British Airways will be displayed in the Standard Fit screen.

     If a standard fit does not exist.
     Click on the New Fit button.
     In the Add New Standard Fit screen.
     Choose the operator = 'British Airways', for the model & engine select '*'.
     Click on the Save button to save your fit and close the screen.

     Click on the Add Part button.
     Select your part from the drop down list. (SSC001)

Check that the Qty per Airframe is correct
     Click on the Save button
     We have now created a Standard Fit List that say's all BA aircraft can have
     these seat covers.
     Click on the close button to close the Standard Fit List screen. (optional)

Step 2; Tag the product to the aircraft.
     We will do this in 2 stages. Firstly using Standard Fits then individually tagging
     aircraft.
     Click on the Tag A/C button on the left hand main menu bar.
     Select British Airways from the Operators Multi Pick

Click on the Tag Selected Aircraft button.

     In The Aircraft Tagger screen.
     Click on the Tag Fleet With Fits button.   This will tag products from any
     standard fits for these aircraft.
     When finished, click on the Close button.

     Click on the Tag A/C button on the left hand main menu bar again.
     This time select Operator Aer Lingus Commuter and Type 146.
     Click on the Tag Selected Aircraft button.

     In The Aircraft Tagger screen.
     Click on the Tags button.

In the Tags screen
     Type SSC001
     You will notice that the list scrolls down incrementally displaying the product
     you are looking for roughly in the middle of the list box.
     Because we want to append a part to the tags already tagged we Click on the
     Clear all button
     This clears all the check boxes and saves the program doing extra work.
     Click on the box next to part SSC001 to put a tick in it.
     Click on the Append To All button.

Now we have tagged the seat cover to the aircraft, we can individualize each product on
each of the aircraft.

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How to Create a Forecast - Example 1 (continued)

If we know when the seat covers were last changed we can fill in the Last Event either or by Date, Hours or Cycles.
The forecast functions will use this date or hours or cycles instead of having to work it out from when the aircraft was new.

If you know when they were first fitted to the aircraft we can fill in the Fit Date box otherwise the forecasting functions will take the seat covers as if they were fitted when the aircraft was new.

If the values data for this product is different from the default set up in Define Products then we can edit them to reflect values for this product on this aircraft.

On the Warranty Tab we can set the warranty start date for this product on this aircraft and the warranty period specific to this aircraft.

Step 3, Look at some of the reports for your product.
Click on the reports button on the left hand main menu bar.
In the Reports screen select Component Removal Forecast.
The forecasting options will be displayed.
Select a date range for the report as Between 1-2000 (Jan 2000) and 12-2001 (end of Dec 2001)

Select whether you want a subtotal by Year, Monthly or Quarterly.
Select which subtotal you want within each time period e.g. Operator, type, engine by selecting it from the Group/Order drop down list box.
Select Operator Aer Lingus Commuter and Type 146.
Click on the Preview button.

How to Create a Forecast (Example 2)

Here, you are a company that produces in-flight-entertainment systems.
For this example we will assume that there is one screen for each passenger seat.

There are four films to choose from, i.e. Four DVD players.
And to make things a little more interesting, two additional audio channels, i.e. two Radios.
We supply to Airbus for their A319 type.
Our systems are very expensive & exclusive, we only currently supply to Air France
All the systems were installed on the aircraft from new.

The DVD's are very sensitive. All it takes is one heavy landing to break them but if left alone they will still need servicing every 3 months but with 25% NFF's (No Fault Found). Using the hard time model we will take into account the heavy landings by adding an unscheduled removal allowance of 16% (DVD01).

The radios are a lot sturdier & we will use the probability model for these. Under 5000 hours the probability is 12%, between 5,000 & 10, 000 hours 8% , 10,000-50 000 hours 2% and over 50,000 hours this goes up to 12 % (RAD01).

We'll use the soft time model for the Screens, with an MTBUR of 10,000 Cycles (SCREEN1).

Step 1 Create the products DVD01, RAD01 and SCREEN1
          Define the new products (repeat for each of DVD01, RAD01 and SCREEN1).
          Click on Define Products on the main menu

In the Define Products screen click on the Add a new Part button.
          Add a part no. (DVD01) and a description (DVD Player)
          Select ATA Chapter 23 - Communications
          Select ATA Section 2330 - Passenger Address and Entertainment.
          These entered service in 1999 so we fill in the 1st Date in Service box as 01/01/1999
          For DVD01 the airframe quantity is 4
          For RAD01 the airframe quantity is 2
          For SCREEN1 the quantity is dependent on the number of seats so we put in a default value of 120 per airframe.

Set the Warranty Period to 12 months
          You also want to add the reliability
          Click on the + sign next to Reliability

          For DVD01
          In the Add Removals screen
          Leave the Start From hours, cycles, months as 0 (From when the aircraft was new)
          Select the Hard Time model tab and add the interval 3 months and fill in the unscheduled removal allowance of 16%
          Fill in the NFF's percentage of 25%
          Click on the Add button

How to Create a Forecast - Example 2 (continued)

For RAD01

In the Add Removals screen
       Leave the Start From hours, cycles, months as 0 (From when the aircraft was
       new)
       Select the Probability model tab and add the removals as 12%pa
       Fill in the NFF's percentage of 25%
       Click on the Add button.
       Click on the + sign next to Reliability again.

       In the Add Removals screen
       Fill in the Start hours 5000
       Add the removals as 8%pa
       Fill in the NFF's percentage of 25%
       Click on the Add button.
       Click on the + sign next to Reliability again.

In the Add Removals screen
       Fill in the Start hours 1000
       Add the removals as 2%pa
       Fill in the NFF's percentage of 25%
       Click on the Add button.
       Click on the + sign next to Reliability again.

       In the Add Removals screen
       Fill in the Start hours 50,000
       Add the removals as 12%pa
       Fill in the NFF's percentage of 25%
       Click on the Add button.

       For SCREEN1
       Click on the + sign next to Reliability
       In the Add Removals screen

Select the Soft Time tab.
       Fill in the Start hours 0
       Fill in the MTBUR as 10,000 cycles
       Fill in the NFF's percentage of 25%
       Click on the Add button.

You can also add the cost of removing/overhauling the part, and the amount you charge
for overhauling/replacing the part, this gives you the profit margin.

Once you have created all 3 products we can tag them to aircraft. By far the quickest
way to add tags to an aircraft is to create a Standard Fit list for a particular group of
aircraft and tag them all at the same time.

Define a Standard Fit and add the products
If different models of the A319 have different number of seats then it will be better to
create a Standard Fit for each model. In this way you can change the number per
airframe for each model.

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How to Create a Forecast - Example 2 (continued)

Go into 'Define Fit Lists'
     Click on the Find button
     Look at the list to see if one already exists for Air France where the Model is
     A319* and the Engine says '*' (the * means any)
     The model A319 * is generic and will select all variants of the A319. Just
     selecting * can be used as a wild card to include any aircraft model, engine or
     operator.

If a Standard fit already exists
     Select it and close the browse window.
     The Fit List for Air France will be displayed in the Standard Fit screen.

If a standard fit does not exist.
     Click on the New Fit button.
     In the Add New Standard Fit screen.
     Choose the operator = 'Air France', for the model select A319* & for the engine
     select '*'.
     Click on the Save button to save your fit and close the screen.

     Click on the Add Part button.
     Select your part from the drop down list. (DVD01)
     Check that the Qty per Airframe is correct
     Click on the Save button

     Click on the Add Part button again.

Select your part from the drop down list. (RAD01)
     Check that the Qty per Airframe is correct
     Click on the Save button

     Click on the Add Part button again.
     Select your part from the drop down list. (SCREEN1)
     Check that the Qty per Airframe is correct
     Click on the Save button

     We have now created a Standard Fit List that say's all Air France A319s can
     have these products on them.
     Click on the close button to close the Standard Fit List screen. (optional)

Step 2; Tag the products to the aircraft.
     Click on the Tag A/C button on the left-hand main menu bar.
     Select Air France from the Operators Multi Pick and Type A319 from the A/C
     Type multi Pick
     Click on the Tag Selected Aircraft button.

     In The Aircraft Tagger screen.
     Click on the Tag Fleet With Fits button. This will tag products from any
     standard fits for these aircraft
     All Air France A319s will be tagged with the fit list.

How to Create a Forecast - Example 2 (continued)

If any of the aircraft have a number of seats that does not equal the default, then we can browse through them using the navigation buttons on the Browse Tag screen and edit the quantities independently.

Step 3, Look at some of the reports for your product.
> Click on the reports button on the left hand main menu bar.
> In the Reports screen select Component Removal Forecast.
> The forecasting options will be displayed.
> Select a date range for the report Between 1-2000 (Jan 2000) and 12-2001 (end of Dec 2001)

Select whether you want a subtotal by Year, Monthly or Quarterly.
> Select which subtotal you want within each time period e.g. Operator, type, engine by selecting it from the Group/Order drop down list box.
> Select Operator Air France and Type A319
> Click on the Preview button.

Importing Product Tracker Version 1.0 Data Files

Run X:\ACAS\PTracker\ptimport.exe and follow the on screen instructions (where X is the drive on which ACAS is installed)
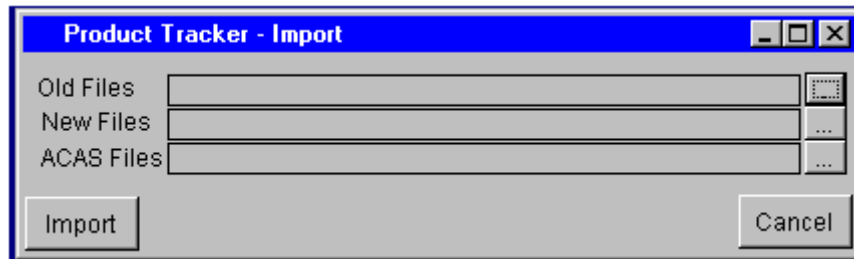
1. Click on the '...' button at the end of Old Files
2. Select the directory where your Product Tracker V1.0 files are.
3. Click on the '...' button at the end of New Files
4. Select the directory where your Product Tracker V2.0 files are.
5. Click on the '...' button at the end of ACAS Files
6. Select the directory where ACAS is installed.
7. Click on the Import button.

Data Backup

To Backup the Product Tracker data
1.   Exit Product Tracker V2.0
2.   Make sure that no one else is using Product Tracker V2.0
3.   At the server locate the directory where Product Tracker V2.0 was installed.
4.   Within that directory, run a program called ptbackup.exe.
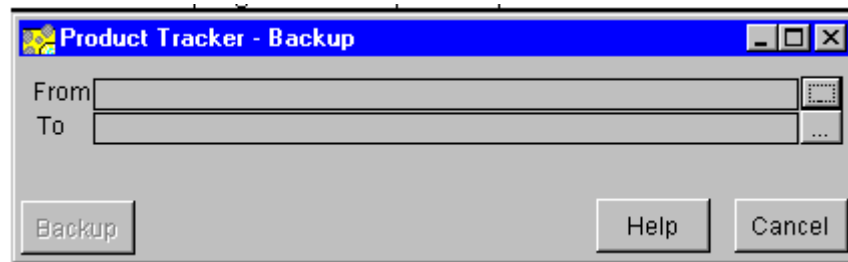
5.   Click on the '...' button at the end of the From and select the directory where Product Tracker v2.0 data is stored.
6.   Click on the '...' button at the end of the To and select the directory where you wish to back Product Tracker v2.0 data to.

7.   Click on the Backup button.

To Restore Product Tracker data
in Explorer locate the data that you have backed up.
copy all the data files into "x:\ACAS\PTracker\data" directory where 'x' is the drive letter.

Aircraft Values

The ACAS Aircraft Values Module for Jet Aircraft is updated twice yearly and sourced from Avmark International.

1. The Module provides access to the current value of a selected operator's fleet (in detail for each aircraft or summarised by type and model).

2. In addition the Module presents – in both graphical and tabular form – the future values of all Jet aircraft.

Aircraft Values is available at additional cost - for further details please contact Tim Fuller - Sales and Marketing Director.

Sample reports are shown overleaf.

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An example of an Operator Fleet Values by Tail Number report:

ACAS OPERATOR FLEET VALUES BY TAIL NUMBER REPORT
(Note: Only Contains Aircraft for which Value Data is Available)

ator = AMERICA WEST AIRLINES,

						Value Data (US	
ne	A/C Type	Model	Reg. No.	Serial No.	Age.	1997	200
T AIRLINES	737	737-100	N708AW	19771	27.81	0.30	
		737-200	C-GBPW	20958	22.55	2.46	
			C-GCPW	20959	22.49	2.46	
			N138AW	22792	15.09	3.93	
			N141AW	21955	17.27	3.38	
			N145AW	20194	27.93	0.84	
			N147AW	22630	15.18	3.93	
			N149AW	22575	16.34	3.64	
			N178AW	22645	16.13	3.64	
			N179AW	22646	16.05	3.64	
			N180AW	22647	15.97	3.64	
			N181AW	22648	15.93	3.64	
			N182AW	22649	15.80	3.64	
			N183AW	22650	15.78	3.64	
			N184AW	22651	15.64	3.64	
			N185AW	22652	15.51	3.93	
			N186AW	22653	15.45	3.93	
			N187AW	22654	15.28	3.93	
			N188AW	22655	15.20	3.93	
			N189AW	22656	15.16	3.93	
			Model Sub Total		**19**	**65.77**	

An example of an Operator Fleet Values Summary Report

ACAS OPERATOR FLEET VALUES SUMMARY REPORT
(Note: Only Contains Aircraft for which Value Data is Available)

Report On: Operator = AMERICA WEST AIRLINES,

				Value
Operator Name	Model	A/C Count	Av Age.	1997
AMERICA WEST AIRLINES	737-100	1	27.81	0.30
	737-200	19	17.09	65.77
	737-300	40	9.91	718.67
	757-200	13	10.74	307.97
	757-200EM	1	8.42	27.30
	A320-231	21	7.13	547.53
	A320-232	5	2.52	168.18
	Operator Sub Total	**100**	**10.59**	**1835.72**
	Report Grand Total	**100**	**10.59**	**1835.72**

An example of an Aircraft Model Values Summary Report
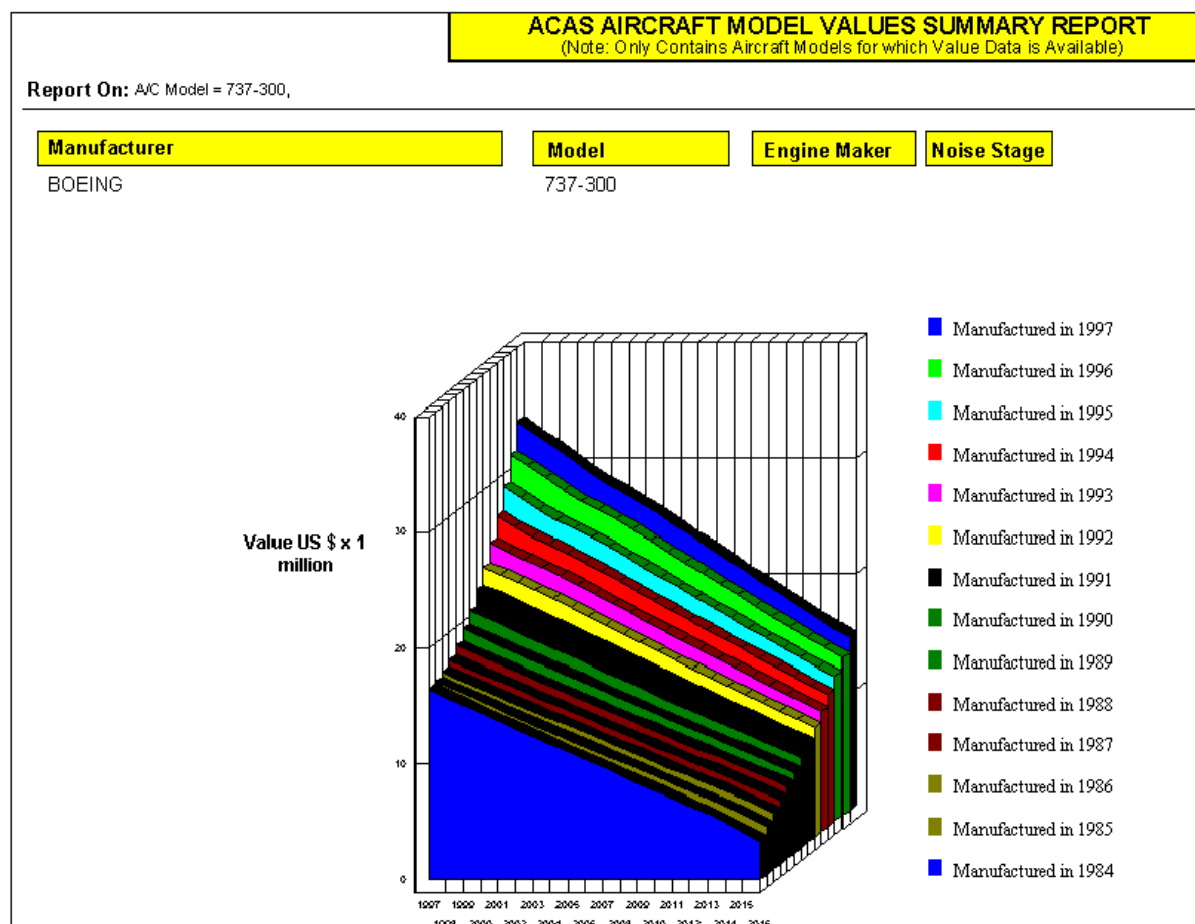
ACAS AIRCRAFT MODEL VALUES SUMMARY REPORT
(Note: Only Contains Aircraft Models for which Value Data is Available)

Report On: A/C Model = 737-300,

Manufacturer	Model	Engine Maker	Noise Stage
BOEING	737-300		

Value US $ x 1 million

Manufactured in 1997
Manufactured in 1996
Manufactured in 1995
Manufactured in 1994
Manufactured in 1993
Manufactured in 1992
Manufactured in 1991
Manufactured in 1990
Manufactured in 1989
Manufactured in 1988
Manufactured in 1987
Manufactured in 1986
Manufactured in 1985
Manufactured in 1984

Year of Man.	Value (US $ x 1 million)														
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	20
1984	16.50	15.80	15.11	14.42	13.73	13.05	12.37	11.70	11.03	10.37	9.71	9.06	8.40	7.74	7
1985	16.69	16.02	15.36	14.69	14.03	13.37	12.72	12.07	11.42	10.78	10.14	9.51	8.87	8.24	7
1986	17.06	16.42	15.77	15.12	14.47	13.82	13.18	12.54	11.90	11.27	10.64	10.02	9.39	8.77	8
1987	17.63	16.99	16.35	15.70	15.06	14.41	13.77	13.13	12.49	11.86	11.23	10.61	9.99	9.37	8
1988	18.38	17.74	17.10	16.45	15.80	15.15	14.50	13.85	13.20	12.56	11.92	11.29	10.66	10.03	9
1989	19.32	18.67	18.02	17.36	16.70	16.03	15.37	14.70	14.04	13.38	12.72	12.07	11.43	10.78	10
1990	20.45	19.82	19.15	18.47	17.79	17.11	16.42	15.73	15.04	14.35	13.67	12.99	12.32	11.65	10
1991	21.76	21.15	20.50	19.79	19.08	18.37	17.64	16.92	16.20	15.48	14.76	14.05	13.34	12.64	11
1992	23.26	22.66	22.01	21.32	20.57	19.82	19.06	18.30	17.54	16.77	16.01	15.26	14.51	13.76	13
1993	24.96	24.14	23.50	22.82	22.08	21.29	20.50	19.70	18.90	18.10	17.30	16.50	15.71	14.92	14
1994	26.84	25.84	24.98	24.31	23.58	22.81	21.98	21.15	20.32	19.48	18.64	17.80	16.97	16.14	15
1995	28.90	27.92	26.88	25.98	25.26	24.49	23.67	22.80	21.92	21.03	20.15	19.26	18.38	17.51	16
1996	31.16	30.22	29.19	28.09	27.14	26.37	25.55	24.67	23.74	22.80	21.87	20.93	19.99	19.05	18
1997	33.60	32.49	31.50	30.41	29.27	28.27	27.44	26.56	25.63	24.64	23.65	22.66	21.67	20.68	19

Aircraft Availability

The Aircraft Availability Module – sourced from Airfax® - presents details of all Jet and Turboprop aircraft available for sale or lease worldwide. The data is updated twice-monthly by e-mail.

The Summary Report lists the available aircraft including details of the Vendor, while the Detail Report provides the current status of the aircraft (including current operator if applicable, hours and cycles data, engine type, MTOW, maintenance contractor and inspection intervals, and a complete transaction history of the aircraft).

Sample reports are shown overleaf.

Aircraft Availability is available at additional cost - for further details please contact Tim Fuller - Sales and Marketing Director.

30/08/00

An example of an Aircraft Availability Report with Detail Report option selected

ACAS AIRCRAFT AVAILABILITY - Detail

Vendor Details
Contact: Fred Browne, European Capital Corporation
Tel: +353.1.668.9066   Fax: +353.1.668.9205
Email: Sita:

Comments
Three QC aircraft available for lease. JT8D-9A engines. One with fresh C-check, two with fresh D-check.

Related Serial Nos: 20138

Aircraft Details

Serial No.:	19847
A/C Registration :	N847TA
Production Line No. :	84
Date Entered Service :	27/11/1968
A/C Manufacturer :	BOEING
A/C Type :	737
A/C Model :	737-200C
Engine Manufacturer :	PW
Engine Type :	JT8D-9A
Noise Compliance :	FAR Part 36 Stage 2
Max Take-Off Weight :	0 ,000 lbs

Aircraft Statistics

A/C Age :	28.7
Cum Hours :	61820
Cum Cycles :	47207
Cum Avg Annual Hours :	2168
Cum Avg Annual Cycles :	1656
Average Flight Time :	1.31
Average Daily Utilisation :	5.94
Hours Last 12 Months :	0
Cycles Last 12 Months :	0
Latest Month Flying Hours :	0

Current/Last Role:
Passenger

Current Operator Details

Name :	AIRASIA SDN BHD
Address :	LEVEL 6, WISMA HICOM
	NO 2 JALAN U 1/8
	4000 SHAH ALAM, KUALA LUMPUR
Country :	MALAYSIA
Region :	INDIAN SUB-CONTINENT
Tel No. :	60-3-202-8900
Fax No. :	

Current Legal Owner Details
Owner : ARDENNES LTD
Address :

Country :

Current Maintenance Facility Details
Name : AIRASIA SDN BHD

Including the history of the aircraft on Page 2 of the Report

ACAS AIRCRAFT AVAILABILITY - Detail

Transaction History for Serial No. 19847

Operator	A/C Reg.	From	To	A/C Model	Engine Type	Hours	Cycles	Remarks
NORDAIR	C-FNAB	27/11/68	29/01/87	737-200C	JT8D	50804	37766	Delivered
CPAIR	C-FNAB	29/01/87	30/01/87	737-200C	JT8D	0	0	Merged
PACIFIC WESTERN AIRLINES	C-FNAB	30/01/87	26/04/87	737-200C	JT8D	833	663	Bought
CANADIAN AIRLINES INTNL	C-FNAB	26/04/87	14/02/90	737-200C	JT8D	6896	5585	Merged
TAT EUROPEAN AIRLINES	F-GGPA	14/02/90	31/01/92	737-200C	JT8D-9A	1730	1126	Leased
TAT EUROPEAN AIRLINES	F-GGPA	31/01/92	01/10/96	737-200C	JT8D-9A	1557	2067	Leased
ARDENNES LTD	F-GGPA	01/10/96	01/10/96	737-200C	JT8D-9A	0	0	Bought
AIRASIA SDN BHD	N847TA	03/03/97	/ /	737-200C	JT8D-9A	0	0	Leased

An example of an Aircraft Availability Report with Summary Report option selected

Aircraft Availability Report - Summary

Report On: A/C Type=146

Contact: Dick Agan/Stuart Peebles, US Airways
Tel: 703.872.7500   **Fax:** 703.872.7515
Email: **Sita:**

Comments: Aircraft available for sublease. Manf. 1985.

Serial No:	Type	Model	Current/Last Role:
HS2048	146	146-200	Passenger

Contact: Rob Malone, Ansett Australia
Tel: +61.3.9339.5228   **Fax:** +61.3.9338.2629
Email: **Sita:** MELMZAN

Comments: QC aircraft available for sale Jan98. 77Y / 9T convertible configuration.

Serial No:	Type	Model	Current/Last Role:
HS2119	146	146-200QC	Freighter

Contact: Crispin Maunder, Ansett Worldwide Aviation Services
Tel: +44.171.497.5444   **Fax:** +44.171.497.5999
Email: **Sita:**

Comments: Aircraft available for lease Sep97. ALF502R-5 engines.

Time-Series

Time-Series uses the world-unique Time-Series data files, which contain the hours and cycles for each aircraft for each month since January 1990, thus allowing you to analyse trends over the last 10 years. A new month is added with each month's update.

Time-Series allows you to select time periods and the number of months to display, in addition to allowing you to export the data to a wide variety of formats.

The first screen presents you with the choice of Global Time-Series i.e. if you wanted to look at the utilisation trends of a large number of aircraft - CF6-50 powered aircraft, for example, and Individual Aircraft Time-Series i.e. the hours and cycles flown each month for, say, the last 5 years on a particular aircraft to check against a warranty claim, for example.

ACAS Time-Series Menu

Global Time-Series
Global A/C Utilisation trends since 1990

Return
Return to Previous Menu

Individual Aircraft Time-Series
Individual A/C Utilisation trends since 1990

Quit
Leave ACAS
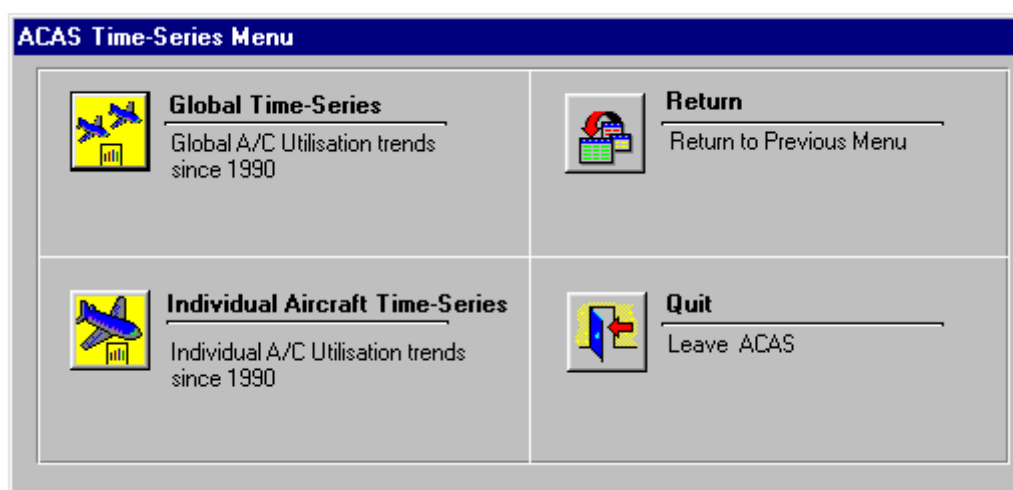
Time-Series is available at additional cost - for further details please contact Tim Fuller - Sales and Marketing Director.

Sample screens and reports are shown overleaf.

Time-Series

A Graph showing the seasonality of Air Europe Italy's operation

Another Graph of Air Europe Italy's operation showing the annual trend in Cycles over the last 10 years (with Summary by Year button checked)

Time-Series

Appendix A - Aircraft Type Terminology - Quick Reference

The following presents the terminology for Aircraft Types contained in ACAS.

Airbus: A300, A300-600, A310, A318*****, A319, A320, A321, A330, A340, Beluga
ATR: ATR42, ATR72
Aerospatiale: Caravelle, Corvette, Nord 262
Aerospatiale/BAe: Concorde
Ayres: Loadmaster *****
BAe: 146, ATP, J31, J41, 1-11, 748, Andover, Vanguard, Viscount, VC10
Beech: 1900, 99, BeechJet, 125, Diamond
Boeing: 707, 720, 717, 727, 737, 747, 757, 767, 777, C-135
Bombardier: Regional Jet, DHC6, DHC7, DHC8, CHALLENGER, LEARJET, CL-215, CL-415
CASA: C-212, CN235
Cessna: Citation
Convair: 580, 600, 640
Dassault: Falcon, Mercure
Douglas: DC8, DC9, DC10, MD80, MD90, MD11, C-17
Dornier: 228, 328, 328JET, 428JET*****, 728JET*****
Embraer: Brasilia, Bandeirante, 135, 145, 170*****, 190*****
Fairchild Metro, Merlin
Fokker: F27, F28, F50, F100
Grumman: Gulfstream 1, II, III, IV, V
Handley Page: Herald
IAI: Astra, Westwind, Galaxy
IPTN: CN212, CN235
Kawasaki: C-1
Lockheed: L1011, L188, L100, Jetstar, C-130, C-141, C-5
NAMC: YS11
Saab: 340, 2000
Sabre: Sabre
Shorts: 330, 360, Skyvan

* data only refers to orders – no aircraft in service yet

Russian Aircraft Data (optional at additional cost)
Antonov An8, 12, 22, 24, 26, 28, 30, 32, 72, 74, 124, 224
Ilyushin IL18, 62, 76, 86, 96, 114
Let 410
Tupolev TU134, 144, 154, 204/214
Yakovlev Yak 40, 42

Please note that the above are Aircraft Types, a Model-Series would be a 737-200 (for example).

30/08/00

Appendix B - Aircraft Serial Number Prefixes

Please note that in order to maintain the uniqueness of the serial number of each aircraft within ACAS, prefixes are assigned to a number of manufacturer's aircraft. When you are using the individual aircraft by serial number programs, you must include the prefixes as follows **(although, if you select a Model or Type, the serial numbers will appear automatically in the selection box)**

Aerospatiale

SE-210: serial numbers prefixed with 210
Corvette: serial numbers prefixed with SN

Airbus

A300, A300-600, A310: serial numbers prefixed with A starting from A0001 i.e. A300 number 12 = A0012, number 240 = A0240

A319: serial numbers prefixed with H

A320: serial numbers prefixed with D starting with D0001 i.e. A320 number 8 = D0008, number 312 = D0312

A321: serial numbers prefixed with G

A330: serial numbers prefixed with E

A340: serial numbers prefixed with F starting with F0001 i.e. A340 number 8 = F0008, number 112 = F0112

ATR

ATR42, ATR72: serial numbers prefixed with 0 starting from 0001 i.e. ATR42 number 9 = 0009, number 232 = 0232

BAe

ATP: serial numbers prefixed with ATP

J31: serial numbers prefixed with JTS

J41: serial numbers prefixed with J41

146: serial numbers prefixed with HS

748: serial numbers prefixed with HS7

1-11: serial numbers prefixed with 1-11

VANGUARD: serial numbers prefixed with VGP

VISCOUNT: serial numbers prefixed with VCT

BAe/Aerospatiale

CONCORDE: serial numbers prefixed with SST

BBAD (Bombardier Business Aircraft Division)

CHALLNGR: serial numbers prefixed with CH

LEAR: serial number prefixed with L

BRAD (Bombardier Regional Aircraft Division)

CRJ: serial numbers prefixed with RJ

DHC6: serial numbers prefixed with D6

DHC7: serial numbers prefixed with D7

DHC8: serial numbers prefixed with D8

CASA

212: serial numbers prefixed with 212- starting from 212-001

235: serial numbers prefixed with 235- starting from 235-001

Convair

CV580: serial numbers prefixed with CV58

CV600: serial numbers prefixed with CV60

CV640: serial numbers prefixed with CV64

Dassault

Falcon: serial numbers prefixed with DA starting with DA10001

Embraer

110: serial numbers prefixed with 110 starting from 110001

120: serial numbers prefixed with 120 starting from 120001

145: serial numbers prefixed with 145 starting from 145001

Fokker

F27, F28, F50, F100: serial numbers prefixed with F

Fairchild built aircraft prefixed with F27

GRUMMAN

GULF 1: serial numbers prefixed with GA1
GULF 2: serial numbers prefixed with GA2
GULF 3: serial numbers prefixed with GA3
GULF 4: serial numbers prefixed with GA4

Handley Page

Herald: serial numbers prefixed with HP

LOCKHEED

L1011: no change from original
C-5: serials prefixed with 500-
Electra: serial numbers prefixed with ELT
Jetstar: serial numbers prefixed with J

Saab

340: serial numbers prefixed with SB starting from SB001
2000: serial numbers prefixed with SB2 starting with SB2001

Shorts

330, 360: serial numbers prefixed with SH

Please note that **Beech, Boeing, Cessna, Dornier, Douglas, Fairchild and IPTN** serial numbers are the original manufacturer's serial numbers and contain no prefixes, apart from the following:

Boeing C-17: serial numbers prefixed with C17P

Appendix C - Boeing Model Descriptions

747

747-SP   (special performance)
747-100   (passenger)
747-100B   (passenger - higher MTOW)
747-100F   (freighter - side cargo door)
747-100PC   (convertible - side cargo door)
747-100SR   (short range)
747-100SRS (short range - stretched upper deck)
747-200B   (passenger)
747-200BPC (convertible - side cargo door)
747-200BS   (passenger - stretched upper deck)
747-200BSPC (convertible - side cargo door/stretched upper deck)
747-200C   (convertible - nose cargo door)
747-200F   (freighter - nose cargo door)
747-200FM   (passenger conversion to freighter)
747-300   (passenger)
747-300PC   (convertible - side cargo door)
747-300SR   (short range)
747-400   (passenger)
747-400D   (Domestic - Japanese market)
747-400PC   (convertible - side cargo door)
747-400F   (freighter – nose cargo door)

757

757-200   (passenger)
757-200EM   (with ETOPS modifications)
757-200PC   (convertible - side cargo door)
757-200PF   (parcel-freighter - side cargo door)
757-300   (passenger)

767

767-200   (passenger)
767-200EM   (with ETOPS modifications; -200 tankage)
767-200ER   (extended range)
767-200EREM (extended range with ETOPS modifications)
767-300   (passenger)
767-300EM   (with ETOPS modifications; -300 tankage)
767-300EREM (extended range with ETOPS modifications)
767-300ERF (extended range freighter with ETOPS modifications)

Appendix D - Menu Selections - Outline Description

The following pages present a brief description of each menu selection together with a
screen extract

                                                                                          Page

Version 2.5 Menu Selections - Outline Description (continued)   Page

HELP Menu

to access HELP for on-line assistance at any time in any menu, select HELP on the top menu bar:

Update News

Update Details presents details each month of the aircraft in ACAS, including data reference date, total aircraft in service by manufacturer/type with new deliveries, retirements/write-offs. The file also contains details of program changes and additions and may be printed or sent to a disk file to keep for reference purposes.

NEWS.DOC - WordPad

File Edit View Insert Format Help

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ACAS

June 2000 Update

The June Update contains updated data files.

Update News now contains both the currency of aircraft data and news of ACAS program Changes and Additions

Aircraft Status

1. Currency of Aircraft Utilisation Data

Manufacturer	Utilisation Data Updated to end-
Aerospatiale*	April 2000 (from February 00)
Airbus	April 2000 (from March 00)
ATR	February 2000 (from January 00)
BAe/Aerospatiale	May 2000 (from April 00)
BAe (AVRO)	April 2000 (from March 00)
BAe (Jetstream)	April 2000 (from March 00)
Beech	April 2000 (from March 00)
Boeing	April 2000 (from March 00)
BBAD (Business Jets)*	May 2000 (from April 00)
BRAD (Turboprop)	May 2000 (from April 00)
BRAD (Jet)	April 2000 (from March 00)
CASA	February 2000 (from February 00)
Cessna*	May 2000 (from April 00)
Convair*	May 2000 (from April 00)
Dassault*	May 2000 (from April 00)
Douglas	March 2000 (from February 00)

NUM

Update News (continued)

The Menu also contains the ACAS customer list, Latest Month Orders, Latest Month Deliveries, Latest Month's Changes, Technical Support contact screen and a Reindexing program should you ever need to reindex the data files other than after the Update.

LATEST NEW AIRCRAFT ORDERS
Sorted By A/C Maker Order

Customer	A/C Maker	A/C Model	Engine Type	Order Month	Ordered	First Delivery
AIR JAMAICA	AIRBUS	A320-200	CFM56-5B-4	December	4	1996
AUSTRIAN AIRLINES	AIRBUS	A340-300	CFM56-5C	December	4	1997
BWIA	AIRBUS	A340-300	CFM56-5C	December	2	1996
GATX	AIRBUS	A321-200	CFM56-5B	January	9	1997
ILFC	AIRBUS	A340-300	CFM56-5C	December	1	
ONUR AIR	AIRBUS	A321-100	V2530-A5	December	1	1996
YEMENIA	AIRBUS	A310-300	CF6-80C2	December	2	1997

A/C Maker Totals for AIRBUS				Total Ordered =	23

Customer	A/C Maker	A/C Model	Engine Type	Order Month	Ordered	First Delivery
CONTINENTAL EXPRESS	ATR	ATR72-200	PW127	December	1	1995

A/C Maker Totals for ATR				Total Ordered =	1

Customer	A/C Maker	A/C Model	Engine Type	Order Month	Ordered	First Delivery
AIR BERLIN	BOEING	737-400	CFM56-3	December	2	1996
ASIANA	BOEING	747-400	UNDISCLOSED	December	2	
ASIANA	BOEING	747-400F	UNDISCLOSED	December	1	
CHINA AIRLINES	BOEING	737-800	CFM56-7	December	6	1998
EUROBELGIAN	BOEING	737-300	CFM56-3	December	2	
JAPAN AIRLINES	BOEING	747-400	UNDISCLOSED	December	16	
JAPAN AIRLINES	BOEING	767-300	UNDISCLOSED	December	1	

Update News (continued)

LATEST MONTH DELIVERIES

Manufacturer	Model	Operator	A/C Reg	Service Date
AIRBUS	A320-214	SWISSAIR	HB-IJF	15/12/1995
AIRBUS	A320-232	TACA INTERNATIONAL AIRLINES	N991LR	04/12/1995
AIRBUS	A320-232	TACA INTERNATIONAL AIRLINES	N981LR	07/12/1995
AIRBUS	A320-232	SICHUAN AIRLINES	B-2340	22/12/1995
AIRBUS	A321-111	AUSTRIAN AIRLINES	OE-LBA	20/12/1995
AIRBUS	A321-131	LUFTHANSA	D-AIRN	01/12/1995
AIRBUS	A321-131	AIR MACAU	CS-MAB	04/12/1995
AIRBUS	A321-131	LUFTHANSA	D-AIRO	11/12/1995
AIRBUS	A330-321	THAI AIRWAYS INTERNATIONAL	HS-TEH	20/12/1995
AIRBUS	A330-322	MALAYSIA AIRLINES	9M-MKJ	13/12/1995
AIRBUS	A330-342	CATHAY PACIFIC AIRWAYS	VR-HLG	15/12/1995
BAE	146-RJ100	CROSSAIR	HB-IXV	15/12/1995
BAE	146-RJ100	CROSSAIR	HB-IXT	21/12/1995
BAE	146-RJ100	CROSSAIR	HB-IXU	22/12/1995
BAE	146-RJ85	DELTA AIR TRANSPORT	OO-DJN	18/12/1995
BAE	146-RJ85	DELTA AIR TRANSPORT	OO-DJO	22/12/1995
BAE	J41	TRANS STATES AIRLINES	N560HK	14/12/1995
BAE	J41	ROYAL THAI ARMY	G-BWGW	18/12/1995
BOEING	737-300	SOUTHWEST AIRLINES	N618WN	01/11/1995
BOEING	737-300	SOUTHWEST AIRLINES	N619SW	09/11/1995
BOEING	737-300	MAERSK AIR	OY-MAU	18/11/1995
BOEING	737-300	CONTINENTAL AIRLINES	N17386	18/12/1995
BOEING	747-400	THAI AIRWAYS INTERNATIONAL	HS-TGR	07/11/1995
BOEING	747-400	SINGAPORE AIRLINES	9V-SPF	04/12/1995
BOEING	747-400	KOREAN AIRLINES	HL7495	28/12/1995
BOEING	747-400D	ALL NIPPON AIRWAYS	JA8966	11/12/1995

Report Designer - lmtrans.frx - Page 1 - ACAS Update Reports Menu

File   Preferences   Update News   Website   View   Window   Help

100%

Latest Months Changes

A/C Type = 146,

| Type | 146 | Reg No. | B-1775 | Model | 146-300 | Engine | 502-R-5 | Transaction Status and Date | Sold | 15/07/1999 |
| Serial | HS3161 | Previous Operator | | | UNI AIR | | | Present Operator | BAE ASSET MNGMNT JETS | |

| Type | 146 | Reg No. | B-1776 | Model | 146-300 | Engine | 502-R-5 | Transaction Status and Date | Sold | 15/07/1999 |
| Serial | HS3174 | Previous Operator | | | UNI AIR | | | Present Operator | BAE ASSET MNGMNT JETS | |

| Type | 146 | Reg No. | B-1781 | Model | 146-300 | Engine | 502-R-5 | Transaction Status and Date | Sold | 15/07/1999 |
| Serial | HS3202 | Previous Operator | | | UNI AIR | | | Present Operator | BAE ASSET MNGMNT JETS | |

| Type | 146 | Reg No. | B-1777 | Model | 146-300 | Engine | 502-R-5 | Transaction Status and Date | Sold | 15/07/1999 |
| Serial | HS3205 | Previous Operator | | | UNI AIR | | | Present Operator | BAE ASSET MNGMNT JETS | |

| Type | 146 | Reg No. | B-1778 | Model | 146-300 | Engine | 502-R-5 | Transaction Status and Date | Sold | 15/07/1999 |
| Serial | HS3209 | Previous Operator | | | UNI AIR | | | Present Operator | BAE ASSET MNGMNT JETS | |

| Type | 146 | Reg No. | OO-DWJ | Model | 146-RJ100 | Engine | 507-1F | Transaction Status and Date | New Aircraft Delivered | 30/07/1999 |
| Serial | HS3355 | Manufacturer | | | BAE | | | Present Operator | DELTA AIR TRANSPORT | |

W61 (c:\acas\acasrite\32017252.dbf) Record: EOF/6   Exclusive   NUM

Aircraft Reports Menu Selections

Individual Aircraft Detail Report

Presents details of current operator, aircraft type and model, engine, APU, propeller type, operational role, whether active/parked, ownership and lease status, operating statistics plus overhaul and inspection intervals and operator and maintenance facility address details plus the transaction history of the aircraft located by an individual or a range of manufacturers' serial numbers or aircraft registrations or aircraft type and line numbers.

Page One of the Report

ACAS INDIVIDUAL AIRCRAFT REPORT

Date

Report Date : 22/07/1998

Aircraft Details

Serial No.:	HS2060
A/C Registration :	D-AZUR
Production Line No. :	60
Date Entered Service :	28/08/1986
A/C Manufacturer :	BAE
A/C Type :	146
A/C Model :	146-200
A/C Role :	Passenger
Active / Parked :	ACTIVE
Engine Manufacturer :	TL
Engine Type :	502-R-5
APU Type :	GTCP36-100M
Propeller Type :	
Noise Compliance :	FAR Part 36 Stage 3
Max Take-Off Weight :	93,000 lbs
Boeing Block Number :	
Boeing Customer Series :	
A/C Value, US$ Millions :	9.06
Note: AVMark A/C Value	

Aircraft Statistics

A/C Age :	11.84
Hours & Cycles Ref. Date :	30/04/1998
Cum Hours :	20072
Cum Cycles :	17982
Cum Avg Annual Hours :	1719
Cum Avg Annual Cycles :	1540

Operator Details

Name :	EUROWINGS
Contact :	REINHARD SANTNER
Title :	CHAIRMAN OF THE BOARD
Address :	FLUGPLATZ 21
	D-44319 DORTMUND
Country :	GERMANY
Region :	W.EUROPE
Tel No. :	49-231-924-5101
Fax No. :	49-231-924-5102
Email :	
Principal Lease Duration :	72 Months
Principal Lease End Date :	01/11/2003

Legal Owner

Owner :	BAE ASSET MANAGEMENT - JETS (AMJ)
Address :	1 BISHOP SQUARE, ST ALBANS ROAD WEST
	HATFIELD
	HERTFORDSHIRE AL10 9NE
Country :	UK

Owner Trustee

Owner :
Address :

Country :

Lender

Owner :
Address :

Aircraft Reports Menu Selections

Individual Aircraft Detail Report (Continued)

Page Two of the Report

ACAS INDIVIDUAL AIRCRAFT REPORT

Maintenance Facility Details

Name :	EUROWINGS
Contact :	ULLI MOERS
Title :	TECHNICAL DIRECTOR
Address :	LUFTVERKEHRS AG
	FLUGHAFENSTRASSE 100
	D-90411 NUREMBERG
Country :	GERMANY
Tel No. :	49-911-3656-0
Fax No. :	49-911-3656203
Email :	
SITA/ARINC :	NUEKKEW

Inspection Intervals

A Check :	0 hrs	500 Cycles	0 Days	0 Months
B Check :	0 hrs	0 Cycles	0 Days	0 Months
C Check :	1000 hrs	0 Cycles		6 Months
D Check :	0 hrs	0 Cycles		0 Months

E Time : TL 502-R-5 TBO 5000 CYCLES OC; GTCP36-150M TBO 4000 APU HOURS
Remarks :

Airframe Overhaul Details

	In-House ?	3rd Party Svce ?	Contracted Out	Contractor
A Check :	Y	N	Y	NAYAK AIRCRAFT SERVICE
B Check :	I	I	I	
C Check :	Y	N	Y	V
D Check :	I	I	I	
Strip/Paint :	?	?	?	
Composites :	?	?	?	

Page Three of the Report

ACAS INDIVIDUAL AIRCRAFT REPORT

Transaction History for Serial No.   HS2060

Operator	A/C Reg.	From	To	A/C Model	Engine Type	Hours	Cycles	Remarks
PRESIDENTIAL AIRWAYS	N402XV	28/08/1986	30/11/1989	146-200	502-R-5	8751	7571	Delivered New
BAE	N402XV	30/11/1989	20/09/1990	146-200	502-R-5	0	0	Returned
AVIACSA	XA-RMO	20/09/1990	18/03/1992	146-200	502-R-5	3364	3999	Leased
BAE INC	N352BA	18/03/1992	07/12/1993	146-200	502-R-5	37	42	Returned
AEROSUR	CP-2260	07/12/1993	20/04/1995	146-200	502-R-5	1517	2147	Leased
HAMBURG AIRLINES	D-AZUR	20/04/1995	20/11/1996	146-200	502-R-5	3195	1719	Leased
BAE ASSET MNGMNT JETS	D-AZUR	20/11/1996	20/11/1996	146-200	502-R-5	0	0	Returned
JERSEY EUROPEAN AIRWAYS	D-AZUR	20/11/1996	31/03/1997	146-200	502-R-5	1173	919	Leased
BAE ASSET MNGMNT JETS	D-AZUR	31/03/1997	31/03/1997	146-200	502-R-5	0	0	Returned
HAMBURG AIRLINES	D-AZUR	31/03/1997	02/01/1998	146-200	502-R-5	1068	773	Leased
BAE ASSET MNGMNT JETS	D-AZUR	02/01/1998	02/01/1998	146-200	502-R-5	0	0	Returned
EUROWINGS	D-AZUR	02/01/1998	/ /	146-200	502-R-5	967	812	Leased

Aircraft Reports Menu Selections (continued)

Addresses (please also refer to Contact Manager)

The Quick Reference Screen provides access to Operator Head Office and Maintenance facility plus Legal Owner addresses, contact names and contact numbers.

Aircraft Reports Menu Selections (continued)

The other Addresses Reports provide the ability to select addresses by aircraft type, model, engine, world region etc, and print mailing labels. You can also create mailmerge files using the Export button

Maintenance Facility Address - Detail Report
Selected Title - VP Maintenance

Report On: A/C Type = 146,World Region = B - Africa,A - Europe Including CIS,

Operator	AEGEAN AVIATION		
IATA		Data Reference Date	10/04/2000
Name	T PASCALIS		
Title	TECHNICAL DIRECTOR		
Address	EAST AIR TERMINAL		
	ATHENS AIRPORT		
	166 03		
City			
State		Zip	
Country	GREECE		
Region	S.EUROPE		
Phone 1	30-1-995-0962	Fax 1	30-1-995-0655
Phone 2	30-1-995-0953	Fax 2	
Email			

Operator	AER LINGUS COMMUTER		
IATA	EI	Data Reference Date	12/01/2000
Name			
Title	VP MAINTENANCE		
Address	NORTH TERMINAL, PA3		
	DUBLIN AIRPORT		
	DUBLIN		
City			
State		Zip	
Country	IRELAND		
Region	W.EUROPE		
Phone 1	353-1-705-3360	Fax 1	353-1-705-6495
Phone 2		Fax 2	
Email			

Operator	AIR BALTIC		
IATA	BT	Data Reference Date	18/04/2000
Name	VLADIMIRS MASLOVSKIS		
Title	ENGINEERING MANAGER		
Address	RIGA INTL AIRPORT		
	LV-1053 RIGA		
City			
State		Zip	
Country	LATVIA		
Region	E.EUROPE		
Phone 1	371-7-207069	Fax 1	371-7-207369
Phone 2		Fax 2	371-7-207186

Operator	AIR BOTSWANA		
IATA	BP	Data Reference Date	18/02/2000
Name	ABE BAW ENGIDA		
Title	ENGINEERING MANAGER		
Address	PO BOX 92		
	SIR SERETSE KHAMA INTL AIRPORT		
	GABARONE		
City			
State		Zip	
Country	BOTSWANA		
Region	S.AFRICA		
Phone 1	267-357134	Fax 1	267-374802
Phone 2	267-373307	Fax 2	268-375249

Addresses Menu (continued)

An example of Maintenance Facility Address mailing labels for all 146 operators in
Europe and Africa

T PASCALIS
TECHNICAL DIRECTOR
AEGEAN AVIATION
EAST AIR TERMINAL
ATHENS AIRPORT
166 03
GREECE

VP MAINTENANCE
AER LINGUS COMMUTER
NORTH TERMINAL, PA3
DUBLIN AIRPORT
DUBLIN
IRELAND

VLADIMIRS MASLOVSKIS
ENGINEERING MANAGER
AIR BALTIC
RIGA INTL AIRPORT
LV-1053 RIGA
LATVIA

ABE BAW ENGIDA
ENGINEERING MANAGER
AIR BOTSWANA
PO BOX 92
SIR SERETSE KHAMA INTL AIRPORT
GABARONE
BOTSWANA

REMI THIERCELIN
TECHNICAL DIRECTOR
AIR JET
BP 10297
ROISSY CHARLES DE GAULLE
PARIS

SIFAS TARENYIKA
DIRECTOR TECHNICAL OPERATIONS
AIR ZIMBABWE
PO BOX AP1
HARARE AIRPORT
HARARE

30/08/00

Aircraft Reports Menu Selections (continued)

Fleet Report 1

Provides detail or summary information on aircraft fleets with multi-pick selections i.e. several aircraft types in several world regions

‣ use Fleet 1 to list operator, country, type, model and quantity

ACAS FLEET 1 DETAIL REPORT

Report On: A/C Type = A330, World Region = E - Pacific Rim,

Operator Name (Country)	A/C Type	Model	Serial No.	Reg. No.
CATHAY PACIFIC AIRWAYS (HONG KONG)				
	A330	A330-342	E0012	B-HLJ
			E0017	B-HLK
			E0071	B-HLA
			E0083	B-HLB
			E0099	B-HLC
			E0102	B-HLD
			E0109	B-HLE
			E0113	B-HLF
			E0118	B-HLG
			E0121	B-HLH
			E0155	B-HLI
			E0244	B-HLL
			Model Sub Total	**12**
DRAGONAIR (HONG KONG)				
	A330	A330-342	E0098	B-HYA
			E0106	B-HYB

Fleet Report 1 with Summary Report Option selected

ACAS FLEET 1 SUMMARY REPORT

Report On: A/C Type = A330, World Region = E - Pacific Rim,

Operator Name	Model	A/C Count
CATHAY PACIFIC AIRWAYS	A330-342	12
DRAGONAIR	A330-342	6
GARUDA INDONESIA AIRWAYS	A330-341	6
KOREAN AIRLINES	A330-223	2
	A330-322	5
Operator Sub Total		**7**
MALAYSIA AIRLINES	A330-322	11
PHILIPPINE AIRLINES	A330-301	6
THAI AIRWAYS INTERNATIONAL	A330-321	8
	A330-322	3
Operator Sub Total		**11**
Report Grand Total		**59**

Aircraft Reports Menu Selections (continued)

Fleet Report 1 with Browse Option selected

Browse of Detail Screen Report (Click on Preferences for Browse Option - the Browse Option is available for all Aircraft Reports Menu selections with the exception of Individual Aircraft Reports)

ACAS REPORT BROWSER

Operator	Serial	Operator	Model	Type	Engine
AIR 2000	22211	AIR 2000	757-200	757	11-535
AIR 2000	22611	AIR 2000	757-200	757	RB211
AIR 2000	22612	AIR 2000	757-200	757	RB211
AIR 2000	23767	AIR 2000	757-200	757	RB211
AIR 2000	23822	AIR 2000	757-200	757	RB211
AIR 2000	24235	AIR 2000	757-200	757	RB211
AIR 2000	24289	AIR 2000	757-200EM	757	RB211
AIR 2000	24290	AIR 2000	757-200EM	757	RB211
AIR 2000	24397	AIR 2000	757-200EM	757	RB211
AIR 2000	24793	AIR 2000	757-200EM	757	RB211
AIR 2000	25240	AIR 2000	757-200EM	757	RB211
AIR 2000	26158	AIR 2000	757-200EM	757	RB211
AIR BELGIUM	24528	AIR BELGIUM	757-200EM	757	RB211
AIR EUROPA	22176	AIR EUROPA	757-200	757	RB211
AIR EUROPA	22185	AIR EUROPA	757-200	757	RB211
AIR EUROPA	23227	AIR EUROPA	757-200	757	RB211
AIR EUROPA	25597	AIR EUROPA	757-200	757	RB211
AIR EUROPA	24122	AIR EUROPA	757-200EM	757	RB211
AIR EUROPA	24794	AIR EUROPA	757-200EM	757	RB211
AIR EUROPA	25053	AIR EUROPA	757-200EM	757	RB211
AIR HOLLAND	24137	AIR HOLLAND	757-200	757	RB211
AIR HOLLAND	24135	AIR HOLLAND	757-200EM	757	RB211
AIRTOURS	22194	AIRTOURS	757-200	757	RB211
AIRTOURS	22195	AIRTOURS	757-200	757	RB211

With the Summary box checked, the screen will now look like this - showing a summary for each operator with the count of aircraft for each model and engine type within the operator's fleet:

ACAS REPORT BROWSER

Operator
AIR 2000
AIR 2000
AIR BELGIUM
AIR EUROPA
AIR EUROPA
AIR EUROPA
AIR HOLLAND
AIR HOLLAND
AIRTOURS
BAIKAL AIRLINES
BIRGENAIR
BRITANNIA AIRWAYS
BRITANNIA AIRWAYS
BRITISH AIRWAYS
BRITISH AIRWAYS
BRITISH AIRWAYS
CONDOR FLUGDIENST
CONDOR FLUGDIENST
IBERIA
ICELANDAIR
ISTANBUL AIRLINES
KAZAKHSTAN AIRLINES
LTE INTERNATIONAL AIR
LTU

Operator	AIR 2000	
Type	757	
Model	757-200EM	
Engine	RB211-535E4	
Count		6
Operator	AIR BELGIUM	
Type	757	
Model	757-200EM	
Engine	RB211-535E4	
Count		1
Operator	AIR EUROPA	
Type	757	
Model	757-200	
Engine	RB211-535C	
Count		3
Operator	AIR EUROPA	
Type	757	
Model	757-200	
Engine	RB211-535E4	
Count		1
Operator	AIR EUROPA	
Type	757	
Model	757-200EM	
Engine	RB211-535E4	
Count		3
Operator	AIR HOLLAND	

30/08/00

Aircraft Reports Menu Selections (continued)

Fleet Report 1 with Legal Owner

‣ use Fleet 1 to list operator, type, model, quantity & Legal Owner

ACAS FLEET 1 WITH LEGAL OWNER DETAIL REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Operator Name	A/C Type	Model	Serial No.	Reg. No.	Legal Owner
CATHAY PACIFIC AIRWAYS	A330	A330-342	E0118	VR-HLG	OWNED BY OPE
			E0109	VR-HLE	OWNED BY OPE
			E0113	VR-HLF	OWNED BY OPE
			E0071	VR-HLA	OWNED BY OPE
			E0083	VR-HLB	OWNED BY OPE
			E0099	VR-HLC	OWNED BY OPE
			E0102	VR-HLD	OWNED BY OPE
			Model Sub Total		**7**
DRAGONAIR	A330	A330-342	E0098	VR-HYA	ILFC
			E0106	VR-HYB	ILFC
			E0111	VR-HYC	ILFC
			Model Sub Total		**3**

Fleet Report 1 with Legal Owner with Summary Report Option selected

ACAS FLEET 1 WITH OWNER SUMMARY REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Operator Name	Model	Legal Owner	A/C Count
CATHAY PACIFIC AIRWAYS	A330-342	OWNED BY OPERATOR	7
DRAGONAIR	A330-342	ILFC	3
MALAYSIA AIRLINES	A330-322	OWNED BY OPERATOR	10
THAI AIRWAYS INTERNATIONAL	A330-321	OWNED BY OPERATOR	8
Report Grand Total			**28**

Aircraft Reports Menu Selections (continued)

Fleet Report 1 with Technical Contact
‣ use Fleet 1 to list operator, type, model, quantity & Technical Contact details

ACAS FLEET 1 - With Technical Contact - DETAIL REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Operator Name	A/C Type	Model	Serial No.	Reg. No.
CATHAY PACIFIC AIRWAYS	A330	A330-342	E0071	VR-HLA
			E0083	VR-HLB
			E0099	VR-HLC
			E0102	VR-HLD
			E0109	VR-HLE
			E0113	VR-HLF
			E0118	VR-HLG

Model Sub Total   7

Technical Contact Details for CATHAY PACIFIC AIRWAYS

Name	ROLAND FAIRFIELD	Title	ENGINEERING DIRECTOR		
Phone	852-2-747-8747	Fax	852-2-764-6579	SITA/ARINC	HKGMZCX

DRAGONAIR	A330	A330-342	E0098	VR-HYA
			E0106	VR-HYB
			E0111	VR-HYC

Fleet Report 1 with Technical Contact with Summary Report Option selected

ACAS FLEET 1 - With Technical Contact - SUMMARY REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Operator Name	Model	A/C Count
CATHAY PACIFIC AIRWAYS	A330-342	7

Technical Contact Details for CATHAY PACIFIC AIRWAYS

Name	ROLAND FAIRFIELD	Title	ENGINEERING DIRECTOR		
Phone	852-2-747-8747	Fax	852-2-764-6579	SITA/ARINC	HKGMZCX

DRAGONAIR	A330-342	3

Technical Contact Details for DRAGONAIR

Name		Title			
Phone		Fax		SITA/ARINC	

MALAYSIA AIRLINES	A330-322	10

Technical Contact Details for MALAYSIA AIRLINES

Aircraft Reports Menu Selections (continued)

Fleet Report 1 with Seat Configuration

▷ use this Report to list operator, type, model, quantity & seat configuration details

ACAS Fleet 1 with Seating Configuration Detail Report

Pitch and Width Measurements are given in Inches

Report On: Operator = UNITED AIRLINES,

Operator Name UNITED AIRLINES

A/C Type 727	Model 727-200	Serial No. 21398	Reg. No. N7251U

1st Class Seats			Business Class Seats			Economy Class Seats			Total
No. 12	Pitch 38.00	Width 20.90	No. 0	Pitch 0.00	Width 0.00	No. 135	Pitch 32.00	Width 17.00	147

A/C Type 727	Model 727-200	Serial No. 21399	Reg. No. N7252U

1st Class Seats			Business Class Seats			Economy Class Seats			Total
No. 12	Pitch 38.00	Width 20.90	No. 0	Pitch 0.00	Width 0.00	No. 135	Pitch 32.00	Width 17.00	147

A/C Type 727	Model 727-200	Serial No. 21400	Reg. No. N7253U

1st Class Seats			Business Class Seats			Economy Class Seats			Total
No. 12	Pitch 38.00	Width 20.90	No. 0	Pitch 0.00	Width 0.00	No. 135	Pitch 32.00	Width 17.00	147

A/C Type 727	Model 727-200	Serial No. 21401	Reg. No. N7254U

1st Class Seats			Business Class Seats			Economy Class Seats			Total
No. 12	Pitch 38.00	Width 20.90	No. 0	Pitch 0.00	Width 0.00	No. 135	Pitch 32.00	Width 17.00	147

A/C Type 727	Model 727-200	Serial No. 21402	Reg. No. N7255U

1st Class Seats			Business Class Seats			Economy Class Seats			Total
No. 12	Pitch 38.00	Width 20.90	No. 0	Pitch 0.00	Width 0.00	No. 135	Pitch 32.00	Width 17.00	147

A/C Type 727	Model 727-200	Serial No. 21403	Reg. No. N7256U

1st Class Seats			Business Class Seats			Economy Class Seats			Total
No. 12	Pitch 38.00	Width 20.90	No. 0	Pitch 0.00	Width 0.00	No. 135	Pitch 32.00	Width 17.00	147

A/C Type 727	Model 727-200	Serial No. 21404	Reg. No. N7257U

Fleet Report 1 with Seat Configuration with Summary Report Option selected

ACAS Fleet 1 with Seating Configuration Summary Report

Report On: Operator = UNITED AIRLINES,

Operator Name UNITED AIRLINES

A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
727	727-200	77	924	0	10395	11319
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
737	737-200	69	552	0	6969	7521
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
737	737-300	101	808	0	11918	12726
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
737	737-500	57	456	0	5700	6156
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
747	747-100	18	324	1260	5490	7074
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
747	747-200B	9	162	711	2448	3321
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
747	747-400	24	540	1748	6700	8988
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
747	747-SP	4	72	248	656	976
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
757	757-200	79	1896	0	12956	14852
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
757	757-200EM	10	240	0	1640	1880
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total
767	767-200	11	110	363	1375	1848
A/C Type	Model	A/C No.	1st Class	Business	Economy	Total

Aircraft Reports Menu Selections (continued)

Fleet Report 2
‣ use Fleet 2 to list operator, type, model, engine & quantity

ACAS FLEET 2 DETAIL REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Operator Name	A/C Type	Model	Engine	Engine Count	Serial No.	Reg. No.
CATHAY PACIFIC AIRWAYS	A330	A330-342	TRENT772-60	2	E0071	VR-HLA
				2	E0083	VR-HLB
				2	E0099	VR-HLC
				2	E0102	VR-HLD
				2	E0109	VR-HLE
				2	E0113	VR-HLF
				2	E0118	VR-HLG
		Model Sub Totals	Engine Count	14	A/C Count	7
DRAGONAIR	A330	A330-342	TRENT772-60	2	E0098	VR-HYA
				2	E0106	VR-HYB
				2	E0111	VR-HYC
		Model Sub Totals	Engine Count	6	A/C Count	3

Fleet Report 2 with Summary Report Option selected

ACAS FLEET 2 SUMMARY REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Operator Name	Model	Engine	A/C Count	Engine Count
CATHAY PACIFIC AIRWAYS	A330-342	TRENT772-60	7	14
DRAGONAIR	A330-342	TRENT772-60	3	6
MALAYSIA AIRLINES	A330-322	PW4168	10	20
THAI AIRWAYS INTERNATIONAL	A330-321	PW4164	8	16
Report Grand Totals	Total A/C	28	Total Engines	56

Aircraft Reports Menu Selections (continued)

Fleet Report 2 – Fleet Summary with Orders

Presents the current status of an operator's fleet in terms of aircraft on order and currently in service (including all operators – even with no aircraft on order)

ACAS Fleet 2 - Fleet Summary with orders
Detail Report

Report On: Operator = AER LINGUS, Orders with a Backlog Only

Operator   AER LINGUS

A/C Type	Model	Engine	Current	Ordered	Delivered	Cancelled	Backlog	Options

Aircraft Ordered by Operator, not currently operated

A/C Type	Model	Engine	Current	Ordered	Delivered	Cancelled	Backlog	Options
A320	A320-200	CFM56-5		6	0	0	6	0

Current Aircraft with Orders, Ordered by Operator

| A321 | A321-211 | CFM56-5B3/P | | 1 | 0 | 0 | 1 | 0 |

Current Aircraft with Orders, Ordered via ILFC

| A330 | A330-202 | CF6-80E1A4 | | 1 | 0 | 0 | 1 | 0 |

Current Fleet

737	737-400	CFM56-3B-2	6	0	0	0	0	0
737	737-500	CFM56-3B-1	7	0	0	0	0	0
A321	A321-211	CFM56-5B3/P	5	0	0	0	0	0
A330	A330-202	CF6-80E1A4	1	0	0	0	0	0
A330	A330-301	CF6-80E1A2	5	0	0	0	0	0
MD11	MD11-P	PW4460	1	0	0	0	0	0

	Current	Ordered	Delivered	Cancelled	Backlog	Options
Operator Totals	25	8	0	0	8	0

	Current	Ordered	Delivered	Cancelled	Backlog	Options
Report Totals	25	8	0	0	8	0

If you check the Summary button, a similar report will appear, but with no model or engine breakdown

Aircraft Reports Menu Selections (continued)

Fleet Report 3

‣use Fleet 3 to operator, type, model, engine plus Line No, MTOW, delivery dates plus the Last 12 Months Hours and Cycles

ACAS FLEET 3 DETAIL REPORT

330,World Region = E - Pacific Rim,

	A/C Maker	A/C Type	A/C Model	Line No.	Serial No.	Eng Mkr	Eng. Type	MTOW x1000 lbs	A/C Reg	Original Delivery Date	Operator Delivery Date	A/C Age	Hours Last 12 Months	Cycles Last 12 Month
AYS	AIRBUS	A330	A330-342	71	E0071	RR	TRENT772-60	467	VR-HLA	27/08/1994	24/03/1995	1.35	1878	820
AYS	AIRBUS	A330	A330-342	83	E0083	RR	TRENT772-60	467	VR-HLB	24/02/1995	24/02/1995	0.85	1904	822
AYS	AIRBUS	A330	A330-342	99	E0099	RR	TRENT772-60	467	VR-HLC	31/05/1995	31/05/1995	0.59	1291	545
AYS	AIRBUS	A330	A330-342	102	E0102	RR	TRENT772-60	467	VR-HLD	30/06/1995	30/06/1995	0.51	987	413
AYS	AIRBUS	A330	A330-342	109	E0109	RR	TRENT772-60	467	VR-HLE	18/08/1995	18/08/1995	0.37	658	317
AYS	AIRBUS	A330	A330-342	113	E0113	RR	TRENT772-60	467	VR-HLF	24/11/1995	24/11/1995	0.10	27	10
AYS	AIRBUS	A330	A330-342	118	E0118	RR	TRENT772-60	467	VR-HLG	15/12/1995	15/12/1995	0.05	0	0
	AIRBUS	A330	A330-342	98	E0098	RR	TRENT772-60	467	VR-HYA	22/05/1995	22/05/1995	0.61	1311	641
	AIRBUS	A330	A330-342	106	E0106	RR	TRENT772-60	467	VR-HYB	27/07/1995	27/07/1995	0.43	827	384
	AIRBUS	A330	A330-342	111	E0111	RR	TRENT772-60	467	VR-HYC	28/09/1995	28/09/1995	0.26	395	209
	AIRBUS	A330	A330-322	69	E0069	PW	PW4168	467	9M-MKC	10/02/1995	10/02/1995	0.89	2596	881
	AIRBUS	A330	A330-322	68	E0068	PW	PW4168	467	9M-MKB	23/02/1995	23/02/1995	0.85	2362	811
	AIRBUS	A330	A330-322	67	E0067	PW	PW4168	467	9M-MKA	01/03/1995	01/03/1995	0.84	2310	1004
	AIRBUS	A330	A330-322	73	E0073	PW	PW4168	467	9M-MKD	24/03/1995	24/03/1995	0.77	2286	763
	AIRBUS	A330	A330-322	77	E0077	PW	PW4168	467	9M-MKE	02/04/1995	02/04/1995	0.75	1862	681
	AIRBUS	A330	A330-322	100	E0100	PW	PW4168	467	9M-MKF	09/06/1995	09/06/1995	0.56	1412	453
	AIRBUS	A330	A330-322	107	E0107	PW	PW4168	467	9M-MKG	09/08/1995	09/08/1995	0.40	1025	309
	AIRBUS	A330	A330-322	110	E0110	PW	PW4168	467	9M-MKH	29/08/1995	29/08/1995	0.34	836	252
	AIRBUS	A330	A330-322	116	E0116	PW	PW4168	467	9M-MKI	15/11/1995	15/11/1995	0.13	15	3
	AIRBUS	A330	A330-322	119	E0119	PW	PW4168	467	9M-MKJ	13/12/1995	13/12/1995	0.05	0	0
ATIONAL	AIRBUS	A330	A330-321	60	E0060	PW	PW4164	467	HS-TEB	09/12/1994	09/12/1994	1.06	2796	1171
ATIONAL	AIRBUS	A330	A330-321	62	E0062	PW	PW4164	467	HS-TEC	14/12/1994	14/12/1994	1.05	2649	1160
ATIONAL	AIRBUS	A330	A330-321	50	E0050	PW	PW4164	467	HS-TEA	20/01/1995	20/01/1995	0.95	2747	1126
ATIONAL	AIRBUS	A330	A330-321	65	E0065	PW	PW4164	467	HS-TEE	20/04/1995	20/04/1995	0.83	2322	949

Fleet Report 3 with Summary Report Option selected

ACAS FLEET 3 SUMMARY REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Operator	A/C Model	Engine Type	Hours Last 12 Months	Cycles Last 12 Months	A/C Count
CATHAY PACIFIC AIRWAYS	A330-342	TRENT772-60	6745	2927	7
DRAGONAIR	A330-342	TRENT772-60	2533	1234	3
MALAYSIA AIRLINES	A330-322	PW4168	14704	5157	10
THAI AIRWAYS INTERNATIONAL	A330-321	PW4164	15439	6321	8

Aircraft Reports Menu Selections (continued)

Fleet Report 4
‣ use Fleet 4 to include operator, type, model, engine plus Line No, MTOW, delivery dates plus all hours & cycles data since the a/c originally entered service

ACAS FLEET 4 DETAIL REPORT

Report On: A/C Type = A330,World Region = E - Pacific Rim,

Current Operator	A/C Type	A/C Model	Line No.	Serial No.	Eng. Type	Mtow x 1000 lbs	A/C Reg	Original Delivery Date	A/C Age	Cum Hours	Cum Cycles	Hours Last 12 Months	Cycles Last 12 Months	Cum Avg Annual Hours
THAY PACIFIC AIRWAYS	A330	A330-342	71	E0071	TRENT772-60	487	VR-HLA	27/08/1994	1.35	1959	868	1979	820	155
THAY PACIFIC AIRWAYS	A330	A330-342	80	E0080	TRENT772-60	487	VR-HLB	24/02/1995	0.85	1904	822	1904	822	248
THAY PACIFIC AIRWAYS	A330	A330-342	99	E0099	TRENT772-60	487	VR-HLC	31/05/1995	0.59	1291	545	1291	545	256
THAY PACIFIC AIRWAYS	A330	A330-342	102	E0102	TRENT772-60	487	VR-HLD	30/08/1995	0.51	987	413	987	413	234
THAY PACIFIC AIRWAYS	A330	A330-342	109	E0109	TRENT772-60	487	VR-HLE	19/09/1995	0.37	658	317	658	317	228
THAY PACIFIC AIRWAYS	A330	A330-342	113	E0113	TRENT772-60	487	VR-HLF	24/11/1995	0.10	27	10	27	10	140
THAY PACIFIC AIRWAYS	A330	A330-342	118	E0118	TRENT772-60	487	VR-HLG	15/12/1995	0.05	0	0	0	0	
AGONAIR	A330	A330-342	98	E0098	TRENT772-60	487	VR-HYA	22/05/1995	0.61	1311	641	1311	641	248
AGONAIR	A330	A330-342	106	E0106	TRENT772-60	487	VR-HYB	27/07/1995	0.43	827	384	827	384	237
AGONAIR	A330	A330-342	111	E0111	TRENT772-60	487	VR-HYC	28/09/1995	0.28	395	209	395	209	225
ALAYSIA AIRLINES	A330	A330-322	69	E0069	PW4168	487	9M-MKC	10/02/1995	0.89	2598	881	2598	881	322
ALAYSIA AIRLINES	A330	A330-322	68	E0068	PW4168	487	9M-MKB	23/02/1995	0.85	2362	811	2362	811	307
ALAYSIA AIRLINES	A330	A330-322	67	E0067	PW4168	487	9M-MKA	01/03/1995	0.84	2310	1004	2310	1004	306
ALAYSIA AIRLINES	A330	A330-322	73	E0073	PW4168	487	9M-MKD	24/03/1995	0.77	2296	763	2296	763	301
ALAYSIA AIRLINES	A330	A330-322	77	E0077	PW4168	487	9M-MKE	02/04/1995	0.75	1862	681	1862	681	279
ALAYSIA AIRLINES	A330	A330-322	100	E0100	PW4168	487	9M-MKF	09/08/1995	0.58	1412	453	1412	453	294
ALAYSIA AIRLINES	A330	A330-322	107	E0107	PW4168	487	9M-MKG	09/08/1995	0.40	1025	309	1025	309	328
ALAYSIA AIRLINES	A330	A330-322	110	E0110	PW4168	487	9M-MKH	29/08/1995	0.34	808	252	808	252	324
ALAYSIA AIRLINES	A330	A330-322	116	E0116	PW4168	487	9M-MKI	15/11/1995	0.10	15	3	15	3	34
ALAYSIA AIRLINES	A330	A330-322	119	E0119	PW4168	487	9M-MKJ	13/12/1995	0.05	0	0	0	0	
AI AIRWAYS INTERNATIONAL	A330	A330-321	60	E0060	PW4164	487	HS-TEB	09/12/1994	1.06	2796	1171	2796	1171	296
AI AIRWAYS INTERNATIONAL	A330	A330-321	62	E0062	PW4164	487	HS-TEC	14/12/1994	1.05	2849	1160	2849	1160	274
AI AIRWAYS INTERNATIONAL	A330	A330-321	50	E0050	PW4164	487	HS-TEA	20/01/1995	0.95	2747	1126	2747	1126	318

Fleet Report 4 with Summary Report Option selected

ACAS FLEET 4 SUMMARY REPORT

On: A/C Type = A330,World Region = E - Pacific Rim,

	A/C Model	Engine Type	Cum Hours	Cum Cycles	Hours Last 12 Months	Cycles Last 12 Months	Cum Avg Annual Hours	Cum Avg Annual Cycles	A/C Count
IC AIRWAYS	A330-342	TRENT772-60	6825	2975	6745	2927	12637	5447	7
	A330-342	TRENT772-60	2533	1234	2533	1234	7113	3510	3
INES	A330-322	PW4168	14704	5157	14704	5157	25296	8594	10
INTERNATIONAL	A330-321	PW4164	15439	6321	15439	6321	20262	8159	8

Aircraft Reports Menu Selections (continued)

Fleet Report 5
‣ use Fleet 5 to include operator, type, model, engine plus Line No, MTOW, delivery dates plus all hours & cycles data since the since the aircraft entered service with the current operator

ACAS FLEET 5 DETAIL REPORT

ort On: A/C Type = A330, World Region = E - Pacific Rim,

Current Operator	A/C Type	A/C Model	Line No.	Serial No.	Eng. Type	Mtow x 1000 lbs	A/C Reg	Operator Delivery Date	A/C Age	Op. Fslge Flying Hours	Op. Fslge Cycles	Op. Hours Last 12 Months	Op. Cycles Last 12 Months	Avg. Annual Flying Hours
HAY PACIFIC AIRWAYS	A330	A330-342	71	E0071	TRENT772-60	467	VR-HLA	24/03/1995	1.05	1877	819	1877	819	1551
HAY PACIFIC AIRWAYS	A330	A330-342	80	E0080	TRENT772-60	467	VR-HLB	24/02/1995	0.85	1904	822	1904	822	2484
HAY PACIFIC AIRWAYS	A330	A330-342	99	E0099	TRENT772-60	467	VR-HLC	31/05/1995	0.59	1291	545	1291	545	2580
HAY PACIFIC AIRWAYS	A330	A330-342	102	E0102	TRENT772-60	467	VR-HLD	30/06/1995	0.51	987	410	987	410	2041
HAY PACIFIC AIRWAYS	A330	A330-342	109	E0109	TRENT772-60	467	VR-HLE	18/08/1995	0.37	658	317	658	317	2289
HAY PACIFIC AIRWAYS	A330	A330-342	110	E0110	TRENT772-60	467	VR-HLF	24/11/1995	0.10	27	10	27	10	1409
HAY PACIFIC AIRWAYS	A330	A330-342	118	E0118	TRENT772-60	467	VR-HLG	15/12/1995	0.05	0	0	0	0	0
GONAIR	A330	A330-342	98	E0098	TRENT772-60	467	VR-HYA	22/05/1995	0.61	1311	641	1311	641	2481
GONAIR	A330	A330-342	106	E0106	TRENT772-60	467	VR-HYB	27/07/1995	0.40	827	384	827	384	2378
GONAIR	A330	A330-342	111	E0111	TRENT772-60	467	VR-HYC	28/09/1995	0.28	395	209	395	209	2254
AYSIA AIRLINES	A330	A330-322	69	E0069	PW4168	467	9M-MKC	10/02/1995	0.89	2596	881	2596	881	3225
AYSIA AIRLINES	A330	A330-322	66	E0066	PW4168	467	9M-MKB	23/02/1995	0.85	2062	811	2062	811	3070
AYSIA AIRLINES	A330	A330-322	67	E0067	PW4168	467	9M-MKA	01/03/1995	0.84	2310	1004	2310	1004	3068
AYSIA AIRLINES	A330	A330-322	70	E0070	PW4168	467	9M-MKD	24/03/1995	0.77	2286	760	2286	760	3010
AYSIA AIRLINES	A330	A330-322	77	E0077	PW4168	467	9M-MKE	02/04/1995	0.75	1862	681	1862	681	2799
AYSIA AIRLINES	A330	A330-322	100	E0100	PW4168	467	9M-MKF	09/08/1995	0.58	1412	450	1412	450	2947
AYSIA AIRLINES	A330	A330-322	107	E0107	PW4168	467	9M-MKG	09/08/1995	0.40	1025	309	1025	309	3284
AYSIA AIRLINES	A330	A330-322	110	E0110	PW4168	467	9M-MKH	29/08/1995	0.34	806	252	806	252	3248
AYSIA AIRLINES	A330	A330-322	116	E0116	PW4168	467	9M-MKI	15/11/1995	0.10	15	3	15	3	342
AYSIA AIRLINES	A330	A330-322	119	E0119	PW4168	467	9M-MKJ	13/12/1995	0.05	0	0	0	0	0
AIRWAYS INTERNATIONAL	A330	A330-321	60	E0060	PW4164	467	HS-TEB	09/12/1994	1.06	2796	1171	2796	1171	2661
AIRWAYS INTERNATIONAL	A330	A330-321	62	E0062	PW4164	467	HS-TEC	14/12/1994	1.05	2649	1160	2649	1160	2749
AIRWAYS INTERNATIONAL	A330	A330-321	50	E0050	PW4164	467	HS-TEA	20/01/1995	0.95	2747	1126	2747	1126	3185

Fleet Report 5 with Summary Report Option selected

ACAS FLEET 5 SUMMARY REPORT

A/C Type = A330, World Region = E - Pacific Rim,

Operator	A/C Model	Engine Type	Op. Fslge Flying Hours	Op. Fslge Cycles	Op. Flying Hours Last 12 Months	Op. Cycles Last 12 Months	Avg. Annual Flying Hours	Avg. Annual Cycles
THAY PACIFIC AIRWAYS	A330-342	TRENT772-60	6744	2926	6744	2926	12637	5447
AGONAIR	A330-342	TRENT772-60	2533	1234	2533	1234	7113	3510
LAYSIA AIRLINES	A330-322	PW4168	14704	5157	14704	5157	25296	8594
AI AIRWAYS INTERNATIONAL	A330-321	PW4164	15439	6321	15439	6321	20262	8159

Aircraft Reports Menu Selections (continued)

Fleet Status Report
Provides a one-page summary of the selected fleet

ACAS FLEET STATUS REPORT		

Report On: A/C Type = 777,

Fleet Statistics	Total	Average
Ordered	349	
Delivered	82	
Cancelled	19	
Backlog	248	
Options	160	
Delivered in the Last 12 Months	51	
Destroyed	0	
Retired	0	
Number Operated	82	
Number of Operators	13	
Number of Leased A/C	4	
Number of Owned A/C	78	
Percentage of A/C - FAR Part 36 Noise Stage 3	100.0	
Parked A/C	0	
Cumulative Fleet Flying Hours	215161	2624
Cumulative Fleet Cycles	79085	964
Fleet Flying Hours Last 12 Months	162195	3125*
Fleet Cycles Last 12 Months	59640	1269*
Fleet Hours latest Month	20612	251
Fleet Cycles latest Month	7010	85
Rate of Annual Fuselage Flying Hours since Delivery		3114
Rate of Annual Fuselage Cycles since Delivery		1298
Flight Time Last 12 Months		2.97634
Flight Time Rate since Original Delivery		2.89012
Daily Utilisation Last 12 Months		8.20780

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Aircraft Reports Menu Selections (continued)

Aircraft Summary Report
Provides an overview of numbers of aircraft and engines (Check Summary Report for a summary of aircraft types only)

ACAS AIRCRAFT SUMMARY REPORT

Report On: A/C Type = L1011,MD11,DC10,A340,747,

Type	Model	Engine	A/C Count	Engine Count
747	747-100	JT9D-7	42	168
747		JT9D-7A	30	120
747		JT9D-7AH	4	16
747		JT9D-7AW	1	4
747		JT9D-7CN	10	40
747		JT9D-7D	2	8
747		JT9D-7W	9	36
747	747-100B	JT9D-7F	1	4
747		RB211-524C2	8	32
747	747-100F	CF6-45A2	2	8
747		JT9D-7	10	40
747		JT9D-7A	7	28
747		JT9D-7AD	2	8
747		JT9D-7AH	15	60
747		JT9D-7AW	2	8
747		JT9D-7CN	8	32

Aircraft Summary Report with Summary Report Option selected

ACAS AIRCRAFT SUMMARY REPORT
Summary by Aircraft Type Only

Report On: A/C Type = L1011,MD11,DC10,A340,747,

Aircraft Type	A/C Count	Engine Count
747	1024	4096
A340	65	260
DC10	417	1251
L1011	234	702
MD11	147	441

Aircraft Reports Menu Selections (continued)

Engine Summary Report

Provides an overview of engine quantities in service

Engine Summary Report

Report On: A/C Type = 777,

Engine Type	Engine Count	A/C Count
GE90-90B	38	19
PW4074	20	10
PW4077	42	21
PW4090	18	9
TRENT875	8	4
TRENT877	26	13
Report Totals	Engines 152	Aircraft 76

Aircraft Reports Menu Selections (continued)

Lease Reports – Lease End

This Screen accesses the lease end dates of over 3000 aircraft on lease. The program enables you to choose from the usual Multi-Pick Selections plus a month and year range or an individual month and year i.e. e.g. all 757 aircraft which come off-lease in October 2001 or between October 2001 and March 2002. You then have a choice of a Summary Report – listing brief details of the aircraft which match the selection criteria or a Detail Report which contains everything we know about each aircraft – similar to the Individual Aircraft Report.

An example of the Summary Report

Aircraft Reports Menu Selections (continued)

Delivery Sequence Report

Provides fleet data in original aircraft delivery sequence

Delivery Sequence Report with Summary Report Option selected

Aircraft Reports Menu Selections (continued)

Last 12 Month's Deliveries Report

Limited detail on new aircraft deliveries over the last 12 months

Last 12 Months' Deliveries Detail Report

Report On: A/C Type = Narrowbody Jets,

Operator	A/C Maker	Model	Engine	Reg. No.	Delivery Date	Age
AERO LLOYD FLUG	AIRBUS	A320-232	V2527-A5	D-ALAE	05/03/1997	0.32
				D-ALAD	12/03/1997	0.30
				D-ALAF	01/04/1997	0.25
			Operator Total		3	
AIR ALFA	AIRBUS	A321-131	V2530-A5	TC-ALL	02/07/1996	1.00
				TC-ALO	15/10/1996	0.71
			Operator Total		2	
AIR BERLIN	BOEING	737-400	CFM56-3C-1	D-ABAL	30/06/1996	1.00
				D-ABAM	28/04/1997	0.18
			Operator Total		2	
AIR CANADA	AIRBUS	A319-114	CFM56-5A5	C-FYIY	10/12/1996	0.56
				C-FYJB	14/01/1997	0.46
				C-FYJE	13/02/1997	0.38

Last 12 Month's Deliveries with Summary Report Option selected

Last 12 Months' Deliveries Summary Report

Report On: A/C Type = Narrowbody Jets,

Operator	Model	Engine	No. of Engines	No. of Aircraft
AERO LLOYD FLUG	A320-232	V2527-A5	6	3
AIR ALFA	A321-131	V2530-A5	4	2
AIR BERLIN	737-400	CFM56-3C-1	4	2
AIR CANADA	A319-114	CFM56-5A5	18	9
	CRJ	CF34-3A1	6	3
Operator Sub Totals	Engines	24	A/C	12
AIR EUROPA	737-300	CFM56-3C-1	4	2
AIR FRANCE	A319-113	CFM56-5A4	16	8
	A321-211	CFM56-5B3/P	6	3
Operator Sub Totals	Engines	22	A/C	11

Aircraft Reports Menu Selections (continued)

Aircraft History Report

Provides access to historical fleet data. For example, you can find out all leased aircraft transactions for an aircraft type (or several types) in a particular world region (or several regions) in say, 1992, simply by selecting a/c type, world region, status and year.

ACAS - AIRCRAFT HISTORY REPORT - DETAIL

Report On: A/C Type = 146,World Region = A - Europe Including CIS,Status = Leased,Year Equals 1992,

Individual History for Serial No. HS2020   Line No. 20   Aircraft Type 146

From	To	With Operator	A/C Reg.	A/C Model	Eng Mkr.	Engine Type	MTOW	Hours
23/02/84	31/12/88	AIR WISCONSIN	N604AW	146-200	TL	502-R-5	90	8544
31/12/88	11/06/89	BAE		146-200	TL	502-R-5	90	0
11/06/89	10/08/89	AIR NOVA	C-FEXN	146-200	TL	502-R-5	90	370
10/08/89	30/09/89	CAPITAL AIRLINES (UK)	C-FEXN	146-200	TL	502-R-5	90	0
30/09/89	27/06/90	CAPITAL AIRLINES (UK)	G-OSUN	146-200	TL	502-R-5	90	1544
27/06/90	21/10/91	BAE	G-BSRV	146-200	TL	502-R-5	90	0
21/10/91	21/12/91	BRITISH AIR FERRIES	G-BSRV	146-200	TL	502-R-5	90	178
21/12/91	27/03/92	BAE	G-BSRV	146-200	TL	502-R-5	90	0
27/03/92	01/09/92	LINHAS AEREAS REGIONAIS	G-BSRV	146-200	TL	502-R-5	90	626
01/09/92	23/12/92	BAE	G-BSRV	146-200	TL	502-R-5	90	0
23/12/92	21/12/93	MALMO AVIATION SCHEDULE	G-BSRV	146-200	TL	502-R-5	90	1188
21/12/93	26/03/94	BAE	G-BSRV	146-200	TL	502-R-5	90	0
26/03/94	15/01/95	FLIGHTLINE - CENTRELINE	G-OLHB	146-200	TL	502-R-5	90	1051
15/01/95	/ /	FLIGHTLINE - ALPINE AVIATION	G-OLHB	146-200	TL	502-R-5	90	1031

Data Ref. 31/10/95   Country UK   Cum. A/C Hours 14532   Cum. A/

Individual History for Serial No. HS2057   Line No. 57   Aircraft Type 146

From	To	With Operator	A/C Reg.	A/C Model	Eng Mkr.	Engine Type	MTOW	Hours

Aircraft History Report with Summary Report Option selected

ACAS - AIRCRAFT HISTORY REPORT - SUMMARY

Report On: A/C Type = 146,World Region = B - Africa,A - Europe Including CIS,Status = Leased, From 01/01/1992 to 31/12/1992

Operator	Type	Model	Total A/C Operated between 01/01/1992 and 31/12/1992
AIR UK	146	146-200	1
	146	146-300	1
ATLANTIC AIRWAYS	146	146-200	1
BRITISH AIR FERRIES	146	146-300	2
DAN-AIR SERVICES	146	146-300	1
LINHAS AEREAS REGIONAIS	146	146-200	2
MALMO AVIATION	146	146-200	1
MALMO AVIATION SCHEDULE	146	146-200	4
SAFAIR	146	146-200QC	1
TAS AIRWAYS	146	146-300	2

Aircraft Reports Menu Selections (continued)

Aircraft History - Past Operators Report

Provides details of operators (plus address details) who have operated a particular aircraft type or model in the past, but who no longer do so.

ACAS - PAST OPERATORS REPORT

Report For Previous Operators of :-

A/C Type = 146,

(Not Including Operators which have Ceased Trading)

Operator Details for AMERICAN AIRLINES

	Head Office	Maintenance Facility
Contact	WILL GREENE	DAVID L. KRUSE
Title	MANAGING DIRECTOR	SNR VP MAINTENANCE & ENGNRNG
Address 1	DALLAS/FORT WORTH INTL ARPT	PO BOX 582809 MD112
Address 2	PO BOX 619616, MD5616	TULSA
Address 3	DALLAS/FORT WORTH TEXAS	OK 74158-2809
Address 4		
Country	USA	USA
Fax	1-817-967-4044	1-918-292-2203
Phone	1-817-967-1234	1-918-292-2612
SITA/ARINC		

Operator Details for ARAMCO SERVICES

	Head Office	Maintenance Facility
Contact		
Title		
Address 1	PO BOX 60010	PO BOX 60010
Address 2	HOUSTON	HOUSTON
Address 3	TX 77205-0001	TX 77205-0001
Address 4		

30/08/00

Aircraft Orders Reports – **Confirmed A/C Orders:** provides access to the Orders file and presents details of firm aircraft orders, deliveries, cancellations, options and delivery schedule either in detail or summarised according to the Sort Order selected. For Unconfirmed or Pending New Aircraft Orders, please select **Unconfirmed A/C Orders.**

New Aircraft Orders Report

Detail Report in Customer Order

With Summary Report Option selected

Orders Reports (continued)

Further examples of Summary Reports with different Sort Orders selected

NEW AIRCRAFT ORDERS REPORT - SUMMARY
Sorted By World Region

Report On: A/C Type = MD11,A340,777,Orders with Backlog Only

World Region Undisclosed

A/C Type	Ordered	Delivered	Cancelled	Backlog	Options
A340	8	1	0	7	8
World Region Totals	8	1	0	7	8

World Region A - Europe Including CIS

A/C Type	Ordered	Delivered	Cancelled	Backlog	Options
777	21	2	0	19	15
A340	32	17	0	15	15
MD11	12	9	0	3	14
World Region Totals	65	28	0	37	44

World Region B - Africa

A/C Type	Ordered	Delivered	Cancelled	Backlog	Options
777	7	0	0	7	0
A340	6	1	0	5	6
World Region Totals	13	1	0	12	6

NEW AIRCRAFT ORDERS REPORT - SUMMARY
Sorted By Engine Maker

Report On: A/C Type = MD11,A340,777,Orders with Backlog Only

Engine Maker Undecided

A/C Type	Ordered	Delivered	Cancelled	Backlog	Options
777	28	0	0	28	0
Engine Maker Totals	28	0	0	28	0

Engine Maker CFM

A/C Type	Ordered	Delivered	Cancelled	Backlog	Options
A340	109	24	0	85	65
Engine Maker Totals	109	24	0	85	65

Engine Maker GE

A/C Type	Ordered	Delivered	Cancelled	Backlog	Options
777	61	3	0	58	22
MD11	23	15	1	7	10
Engine Maker Totals	84	18	1	65	32

Engine Maker PW

A/C Type	Ordered	Delivered	Cancelled	Backlog	Options
777	87	10	0	77	59

Orders Reports (continued)

Annual Delivery Schedule Report
Presents the delivery schedule by year for the next 10 years of aircraft on order backlog according to the sort order selected

Delivery Schedule Summary Report
Sorted By Customer

: A/C Type = 146, Orders with a Backlog Only

V = Verified E = Estimated T = Total

Customer CITYFLYER EXPRESS

A/C Type	Ordered	Delivered	Cancelled	Backlog	1997 V	E	T	1998 V	E	T	1999 V	E	T	2000 V	E	T	2001 V	E	T	2002 V	E	T	2003 V	E	T	2004 V	E	T	2005 V	E	T	2006 V	E	T
146	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Customer Totals	1	0	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Customer CROSSAIR

A/C Type	Ordered	Delivered	Cancelled	Backlog	1997 V	E	T	1998 V	E	T	1999 V	E	T	2000 V	E	T	2001 V	E	T	2002 V	E	T	2003 V	E	T	2004 V	E	T	2005 V	E	T	2006 V	E	T
146	4	0	0	4	0	0	0	0	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Customer Totals	4	0	0	4	0	0	0	0	2	2	0	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Delivery Schedule Summary Report
Sorted By Aircraft Type

port On: A/C Type = 146, Orders with a Backlog Only

V = Verified E = Estimated T = Total

A/C Type 146

	Ordered	Delivered	Cancelled	Backlog	1997 V	E	T	1998 V	E	T	1999 V	E	T	2000 V	E	T	2001 V	E	T	2002 V	E	T	2003 V	E	T	2004 V	E	T	2005 V	E	T	2006 V	E	T
Type Totals	50	11	0	39	0	0	0	17	2	19	10	2	12	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Ordered	Delivered	Cancelled	Backlog	1997 V	E	T	1998 V	E	T	1999 V	E	T	2000 V	E	T	2001 V	E	T	2002 V	E	T	2003 V	E	T	2004 V	E	T	2005 V	E	T	2006 V	E	T
Report Totals	50	11	0	39	0	0	0	17	2	19	10	2	12	8	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Orders Reports (continued)

24 Months Delivery Schedule Summary Report

Presents the delivery schedule by month for the next 24 months of aircraft on order backlog according to the sort order selected

Update Period: January 1998

24 Month Delivery Schedule Summary Report
Sorted By Customer

Report On: A/C Type = 146, Orders with a Backlog Only

Customer				Delivery Schedule																								
CITYFLYER EXPRESS				1998												1999												
A/C Type	Ordered	Delivered	Cancelled	Backlog	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	De
146	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Total Deliveries next 12 months	1	Total Deliveries next 24 months	1	Schedule Status	100.00% Verified

Customer				Delivery Schedule																								
CROSSAIR				1998												1999												
A/C Type	Ordered	Delivered	Cancelled	Backlog	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	De
146	4	0	0	4	0	0	0	0	0	0	0	0	0	2	0	0	0	1	0	1	0	0	0	0	0	0	0	

Total Deliveries next 12 months	2	Total Deliveries next 24 months	4	Schedule Status	0.00% Verified

Customer				Delivery Schedule																								
NORTHWEST AIRLINES				1998												1999												
A/C Type	Ordered	Delivered	Cancelled	Backlog	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	De
146	36	9	0	27	0	1	1	1	1	1	1	2	1	0	0	0	1	1	1	1	1	1	1	1	1	1	0	

Total Deliveries next 12 months	9	Total Deliveries next 24 months	19	Schedule Status	100.00% Verified

Update Period: January 1998

24 Month Delivery Schedule Summary Report
Sorted By A/C Type

Report On: A/C Type = 146, Orders with a Backlog Only

A/C Type				Delivery Schedule																								
146				1998												1999												
A/C Type	Ordered	Delivered	Cancelled	Backlog	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	De
146	50	11	0	39	0	2	2	2	2	1	2	2	2	2	1	1	1	2	1	2	1	1	1	1	1	1	0	

Total Deliveries next 12 months	19	Total Deliveries next 24 months	31	Schedule Status	89.74% Verified

				1998												1999												
	Ordered	Delivered	Cancelled	Backlog	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	De
Totals	50	11	0	39	0	2	2	2	2	1	2	2	2	2	1	1	1	2	1	2	1	1	1	1	1	1	0	

Total Deliveries next 12 months	19	Total Deliveries next 24 months	31	Schedule Status	89.74% Verified

30/08/00

Orders Reports (continued)

Orders Summary with Current Fleet Report
Presents the current status of an operator's fleet in terms of aircraft on order and currently in service (excluding operators with no aircraft on order)

Orders with Current Fleet
Detail - Sorted By Customer

Report On: Operator = BRITANNIA AIRWAYS, With All Orders

Customer BRITANNIA AIRWAYS

A/C Type	Model	Engine	Current	Ordered	Delivered	Cancelled	Backlog	Options
Current Aircraft with Orders								
757	757-200	RB211-535E4	2	11	11	0	0	0
767	767-300EREM	CF6-80C2B7F	2	5	4	0	1	3
Ordered by Customer, not currently operated								
737	737-200	JT8D	0	25	25	0	0	0
737	737-200C	JT8D	0	2	2	0	0	0
767	767-200	CF6-80A	0	6	6	0	0	0
767	767-200EREM	CF6-80C2	0	5	5	0	0	0
Other Current Aircraft								
757	757-200EM	RB211-535E4	16					
767	767-200EM	CF6-80A	1					
767	767-200EREM	CF6-80AF	4					
767	767-200EREM	CF6-80C2B4F	2					

	Current	Ordered	Delivered	Cancelled	Backlog	Options
Customer Totals	27	54	53	0	1	3

	Current	Ordered	Delivered	Cancelled	Backlog	Options
Report Totals	27	54	53	0	1	3

Orders with Current Fleet with Summary Report Option selected

Orders with Current Fleet
Summary - Sorted By Customer

Report On: Operator = BRITANNIA AIRWAYS, With All Orders

Customer BRITANNIA AIRWAYS

A/C Type	Current	Ordered	Delivered	Cancelled	Backlog	Options
Current Aircraft with Orders						
757	18	11	11	0	0	0
767	9	16	15	0	1	3
Ordered by Customer, not currently operated						
737	0	27	27	0	0	0

	Current	Ordered	Delivered	Cancelled	Backlog	Options
Customer Totals	27	54	53	0	1	3

	Current	Ordered	Delivered	Cancelled	Backlog	Options
Report Totals	27	54	53	0	1	3

Orders Schedule with Current Fleet Report

presents the current status & delivery schedule of an operator's fleet in terms of a/c on order & currently in service

```
Report Designer - v2cford.frx - Page 1 - ACAS Aircraft Reports- Orders              _ 8 X
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            |◀  ◀  🔁  ▶  ▶|  100% ▼  ◨  🖨
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Orders Schedule with Current Fleet Summary Report
Sorted By Operator

Report On: Operator = AMERICAN AIRLINES, Orders with a Backlog Only

Operator	Country	Main Region	Type	In Service	Order Backlog	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	Op
						Delivery Schedule										
AMERICAN AIRLINES	USA	North America	767	73	6	2	4	0	0	0	0	0	0	0	0	
AMERICAN AIRLINES	USA	North America	737	0	100	0	20	32	32	6	5	5	0	0	0	4
AMERICAN AIRLINES	USA	North America	757	90	12	6	6	0	0	0	0	0	0	0	0	
AMERICAN AIRLINES	USA	North America	777	0	19	0	8	9	2	0	0	0	0	0	0	
Operator = AMERICAN AIRLINES Totals				163	137	8	38	41	34	6	5	5	0	0	0	4

	In Service	On Order	Delivery Schedule											Op
			1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	
Report Totals	163	137	8	38	41	34	6	5	5	0	0	0	4

```
Repdata              Record: EOF/4       Exclusive                              NUM
```

Orders Reports (continued)

Aircraft Build Rates

In the Aircraft Orders Reports section of the Aircraft Reports Menu, select Build Rates and the screen will change to the one below.

Then select Aircraft Maker, Model or Type and click on Preview

The screen will then show you the monthly build rates for each quarter of the next two years. The data is sourced from the manufacturers.

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Aircraft Reports Menu Selections (continued)

Product Tracker Reports - please refer to the Optional Modules Tab

A/C Analytical Reports

Age Analysis - Summary Report by Age Band

Presents aircraft fleet age structure by age band in 5 year bands by the number of aircraft in each band and the percentage of the fleet in each band. In addition a bar chart of the data is presented.

A/C Type = 747,
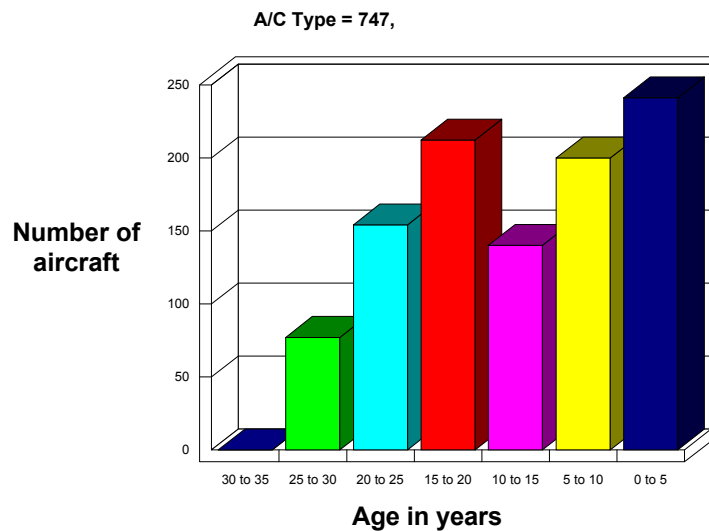
A/C Analytical Reports (continued)

Flying Hours Analysis

As Age Analysis, but by flying hours in bands of 10,000 flying hours.

A/C Type = 747,
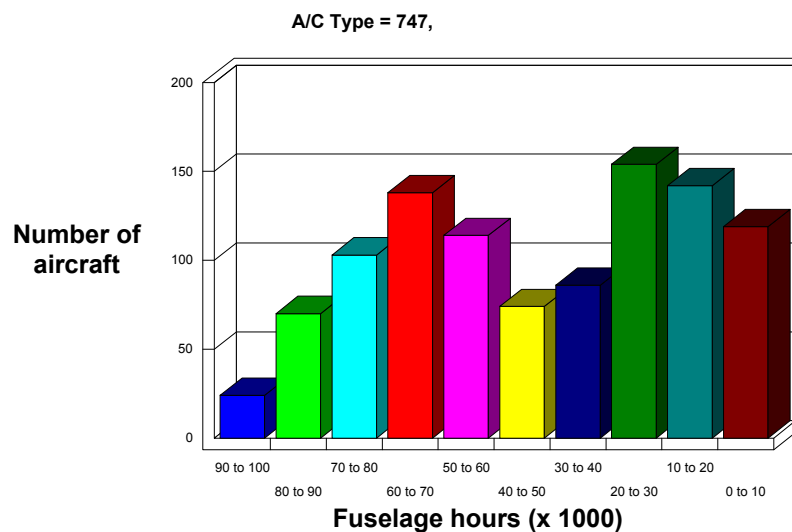
A/C Analytical Reports (continued)

Cycles Analysis

As Age Analysis, but by cycles in bands of 10,000 cycles.

A/C Type = 747,
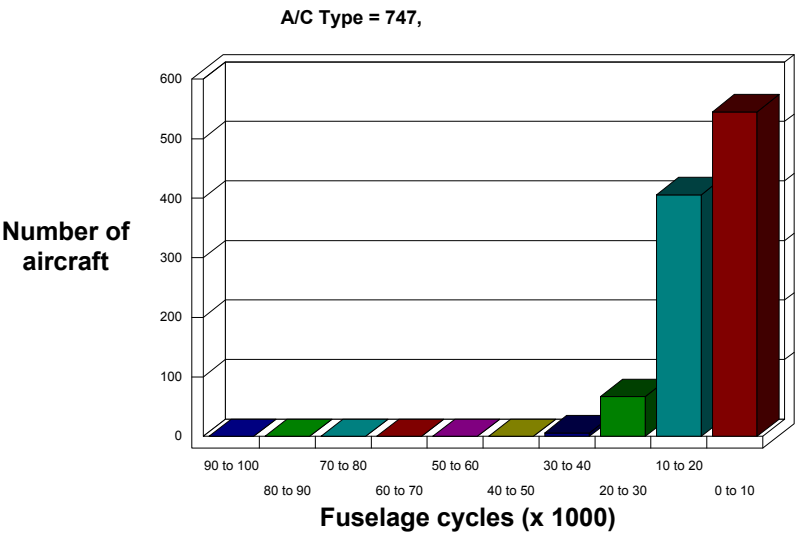
A/C Analytical Reports (continued)

Age Analysis - Report by Year for the Past 25 Years

Report lists number of Aircraft by model by year of Age together with a line chart.

A/C Type = 747,

30/08/00
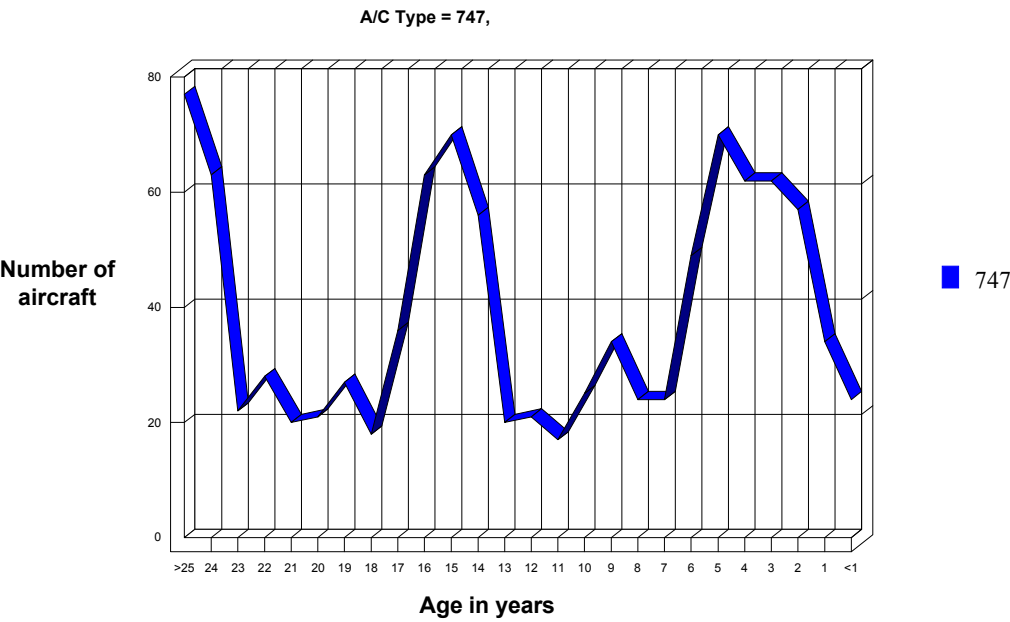
A/C Analytical Reports (continued)

Parked Aircraft
Displays a graph of active and parked aircraft, together with details of individual parked aircraft including operator contact details

A/C Type = 747,

6.9%

Active 953

Parked 71

93.1%
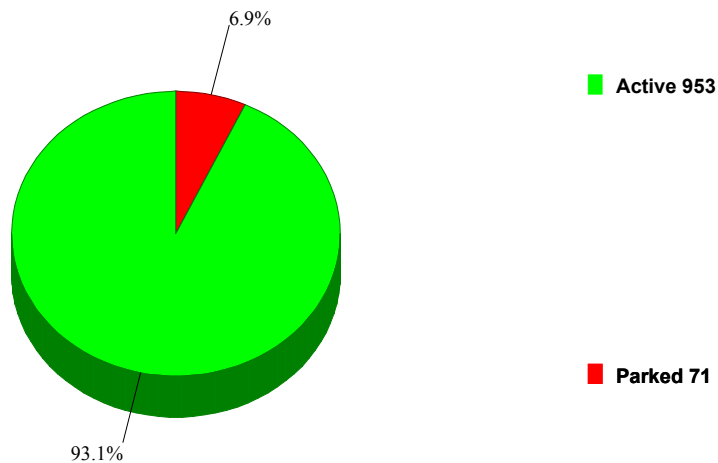
Global Parked Jet Aircraft Analysis
Provides a summary of parked narrowbody and widebody aircraft, with noise stage and age distribution, together with a summary of parked aircraft numbers by aircraft type

Global Summary Analysis of Parked Jet Aircraft

	Number Parked	% of Fleet	Age Distribution					
			0 - 5	5 - 10	10 - 15	15 - 20	20 - 25	25+
Narrow Body								
Stage 1	108	36.6	1	0	28	22	9	48
Stage 2	458	11.8	0	0	31	44	77	306
Stage 3	113	2.2	29	45	21	3	4	11
Wide Body	243	7.5	17	10	40	65	89	22
Total	922	7.3	47	55	120	134	179	387

Global Analysis of Parked Jet Aircraft

Aircraft Type	Quantity in Fleet	Number Parked	% of Fleet
1-11	176	26	14.8
146	268	30	11.2
707	393	130	33.1
720	14	4	28.6

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A/C Analytical Reports (continued)

Performance Analysis

Aircraft Market Performance Reports

Analysis of market share by seat category and short-medium/long-haul aircraft

Summary of Deliveries and Order backlog

Medium/Short Haul aircraft with 121 to 170 sea

Type	727	737	A320	L188	MD80	MD90
Delivery total	1247	1338	495	82	1071	13
Order backlog total	0	179	96		39	50

Aircraft Market Performance

Medium/Short Haul aircraft with 121 to 170 seats, delivered between 0

Year	727	737	A320	MD80	MD90	Total
1989		147	55	103		305
% share		48.2	18.0	33.8		
1990	2	143	58	115		318
% share	0.6	45.0	18.2	36.2		
1991		126	121	124		371
% share		34.0	32.6	33.4		
1992		141	121	84		346
% share		40.8	35.0	24.3		
1993		121	69	44		234
% share		51.7	29.5	18.8		

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A/C Analytical Reports (continued)

Performance Analysis

Aircraft Manufacturer Performance Reports

Analysis of aircraft delivery performance by manufacturer

Summary of Deliveries and Order backlog to date

Aircraft Manufactured by AIRBUS

Type	A300	A300-600	A310	A320	A321	A330	A340
Delivery total	236	198	251	495	41	42	66
Order backlog total		22	9	96	54	31	46

Aircraft Manufacturer Performance

Aircraft Manufactured by AIRBUS

Year	A300	A300-600	A310	A320	A321	A330	A340	Total
1988		17	27	14				58
1989	2	23	23	57				105
1990		19	18	58				95
1991		26	19	122				167
1992		22	25	121				168
1993		22	22	69		1	21	135
1994		23	2	31	16	9	26	107
1995		16	2	23	22	30	19	112

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A/C Analytical Reports (continued)

Performance Analysis

Engine Manufacturer Performance Reports

Analysis of engine delivery performance by manufacturer

	Summary of Deliveries and Order backlog to									

Engines by GE

Type	CF34	CF6-45	CF6-50	CF6-6	CF6-80A	CF6-80C	CF6-80E	CJ610	CT7	GE90
Delivery total	430	68	1845	390	348	2070	16	1472	814	8
Order backlog total	92		0	0	0	426	20		78	34

There are more engines and aircraft types
than can be shown in this report.
Please print the report to see all the data.

Engine Manufacturer Performance

Engines by GE delivered between 01/01/1980 and 31/12

Year	Total	CF34 CHALLNG	CF34 CRJ	CF6-45 747	CF6-50 747	CF6-50 A300	CF6-50 DC10	CF6-6 DC10	CF6-80A 767	CF6-80A A310	CF6-80C 747
1980	335			24	64	68	78	27			
% share				7.2	19.1	20.3	23.3	8.1			
1981	256			16	72	64	51	15			
% share				6.3	28.1	25.0	19.9	5.9			
1982	155			8	16	62	30	3	14		
% share				5.2	10.3	40.0	19.4	1.9	9.0		
1983	164	2			12	32	30		54	20	
% share		1.2			7.3	19.5	18.3		32.9	12.2	
1984	144	12			12	10	24		30	28	
% share		8.3			8.3	6.9	16.7		20.8	19.4	

A/C Analytical Reports (continued)

Performance Analysis

Fleet Performance Reports

1 Standard Report- Analysis of hours and cycles for each month over a rolling 24 month period
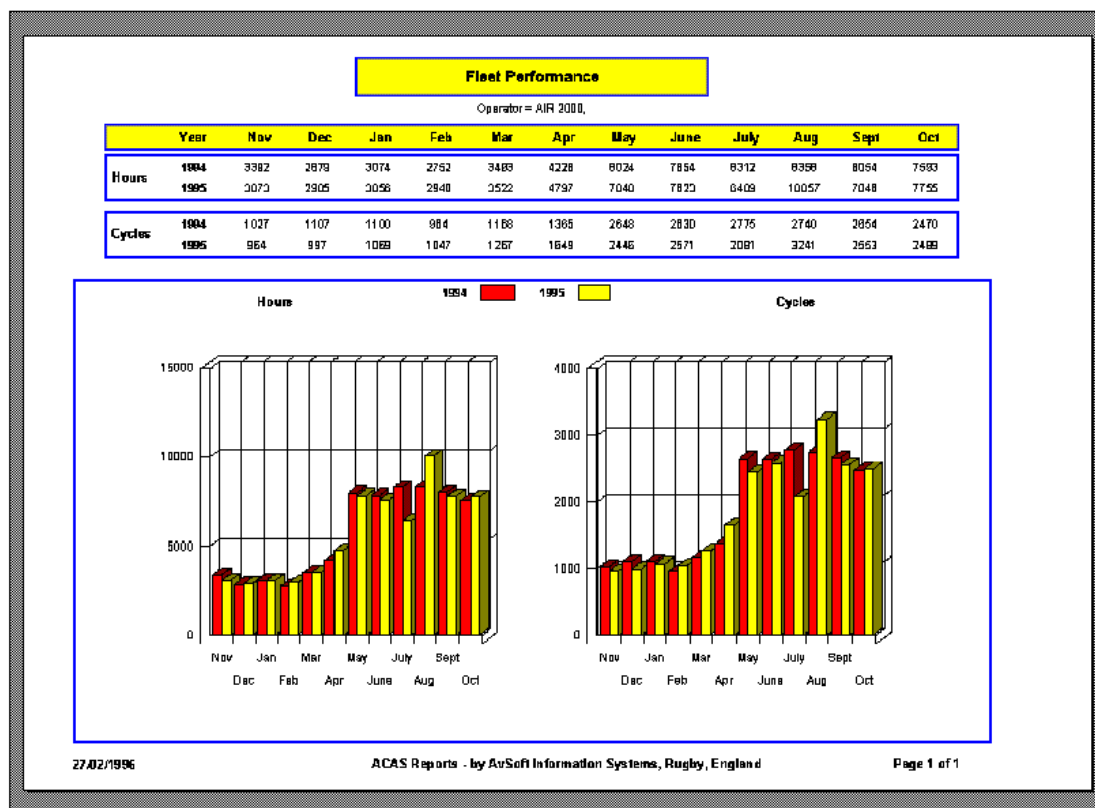
Optional Time-Series Report
Analysis of hours and cycles for each month since January 1990 (available at extra cost)

A Graph showing the seasonality of Air Europe Italy's operation
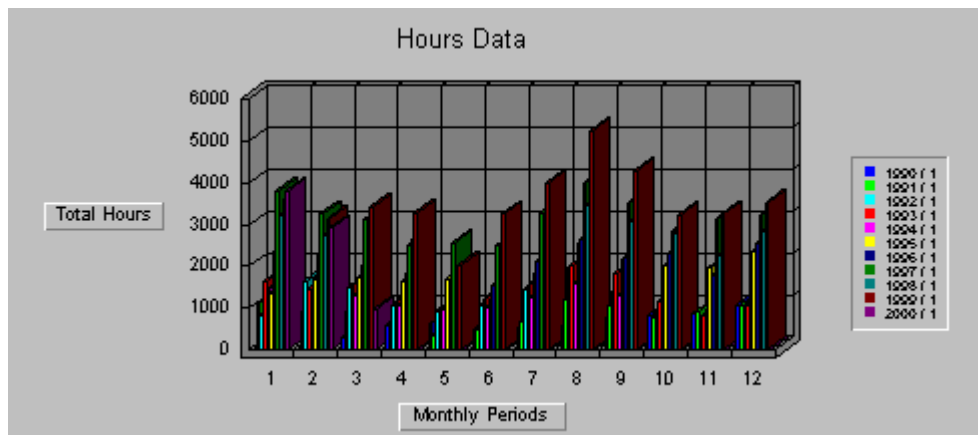
Another Graph of Air Europe Italy's operation showing the annual trend in Cycles over the last 10 years (with Summary by Year button checked)

30/08/00
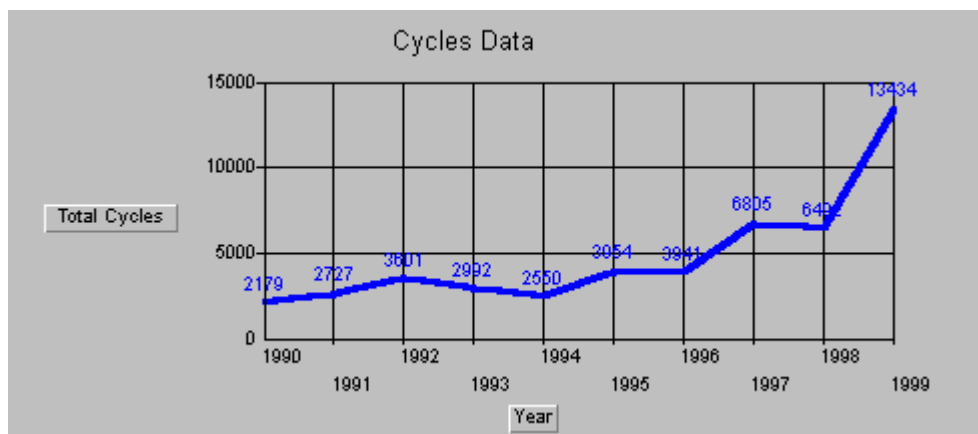
2 Optional Time-Series Report - Analysis of hours and cycles for each month since January 1990 (available at extra cost)....continued

Time-Series Report for an Individual Aircraft (or Range of Individual Aircraft)

Report Designer - fleettim1.frx - Page 1 - ACAS Time Series menu

File   Preferences   Update News   Website   View   Window   Help

Individual Aircraft Time-Series

A/C Type = 146,

Total number of months selected   132

Hours Data Period Range Start Month|Year	Range Total	Min	Max	Month 1	2	3	4	5	6	7	8	9	10
Serial No. : HS1010 A/C Type :146 Delivered New : 07/12/1983 Destroyed/Retired : Still Active													
Jan 1990 KLM UK	1498	27	175	143	98	124	161	175	116	27	149	139	130
Jan 1991 KLM UK	1952	97	209	130	97	100	143	209	168	203	193	191	188
Jan 1992 KLM UK	2048	120	197	185	166	190	193	175	161	172	189	178	122
Jan 1993 KLM UK	1766	83	189	134	128	141	150	141	178	180	189	141	175
Jan 1994 KLM UK	423	0	197	197	155	70	1	0	0	0	0	0	0
Jan 1994 JERSEY EUROPEAN AIRWAYS	186	0	83	0	0	0	0	0	0	0	0	23	38
Jan 1995 JERSEY EUROPEAN AIRWAYS	1171	54	215	76	61	54	90	86	76	215	155	88	84
Jan 1996 JERSEY EUROPEAN AIRWAYS	1502	38	247	67	38	100	136	150	125	126	139	109	54
Jan 1997 JERSEY EUROPEAN AIRWAYS	2447	146	250	234	243	250	184	206	198	215	212	201	195
Jan 1998 JERSEY EUROPEAN AIRWAYS	1058	13	119	93	13	64	96	87	108	103	88	119	111
Jan 1999 JERSEY EUROPEAN AIRWAYS	1538	0	182	108	74	133	136	169	169	127	143	178	182
Jan 2000 JERSEY EUROPEAN AIRWAYS	388	0	252	252	15	121	0	0	0	0	0	0	0

Total   Hours   15977

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A/C Analytical Reports (continued)

Engine Manufacturer Orders Analysis Reports

Engine Maker Market Share (last 10 years)
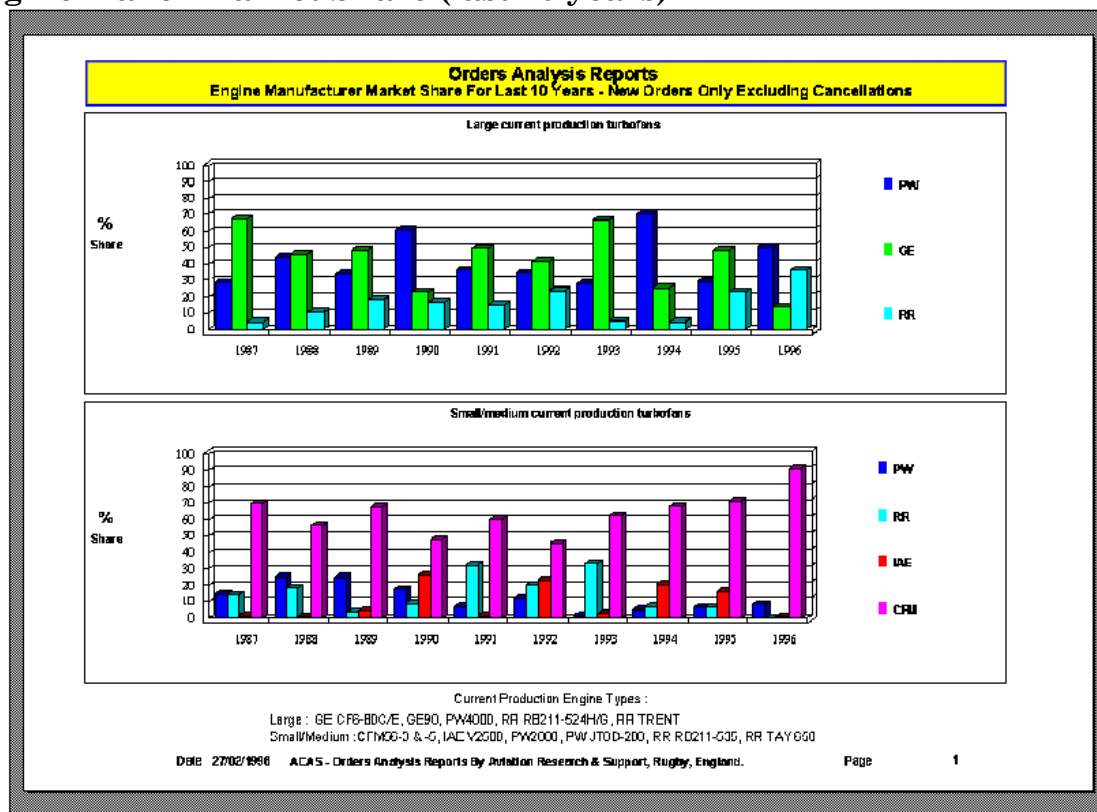
Engine Maker Market Share by date
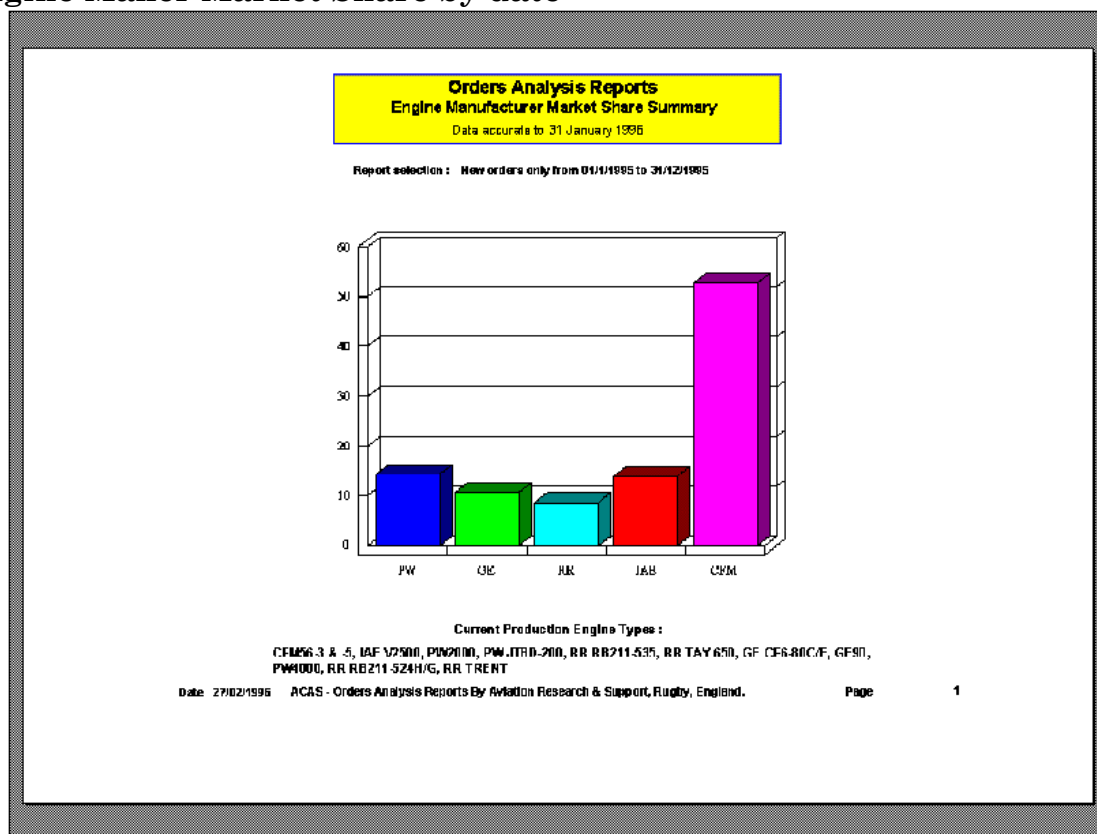
A/C Analytical Reports (continued)

Engine Manufacturer Orders Analysis Reports

Engine Maker Market Share by A/C type
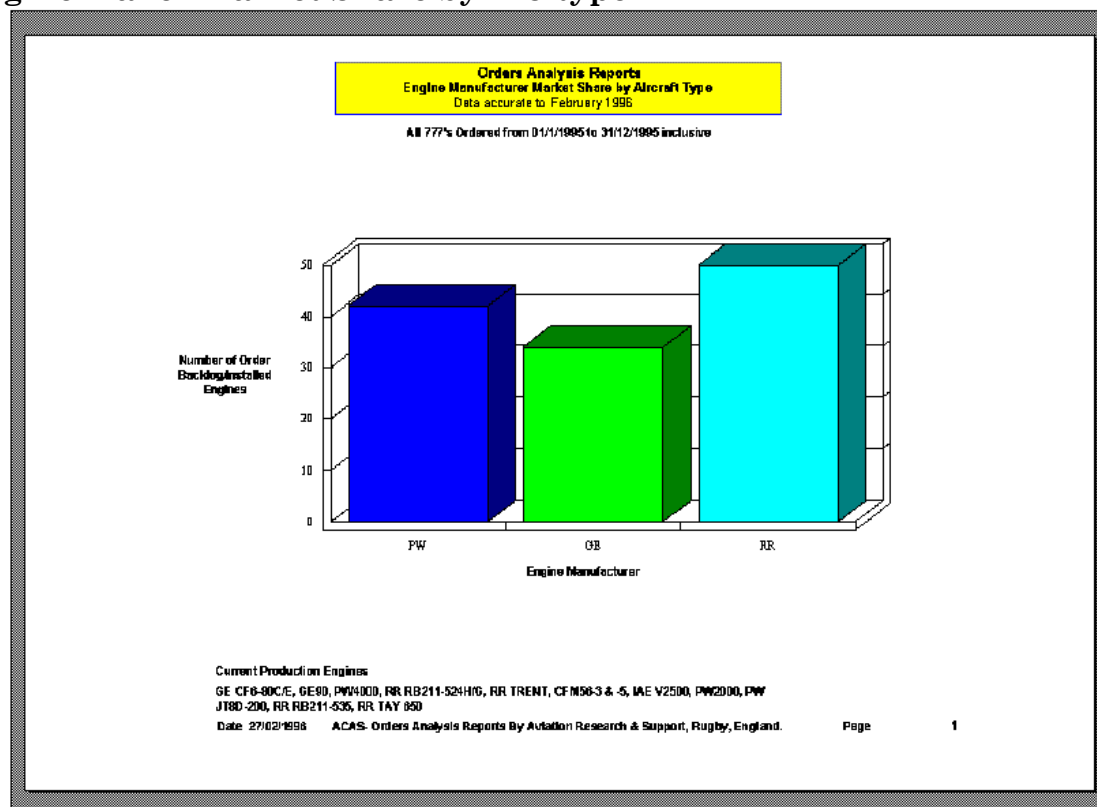
Engine Maker Market Share by Engine type

A/C Analytical Reports (continued)

Engine Manufacturer Orders Analysis Reports

Engine Maker Market Share by World Region

A/C Analytical Reports (continued)

Airframe Manufacturer Orders Analysis Reports
Airframe Maker Market Share by World Region

Airframe Manufacurer Market Share for Major World Region of Europe

Current Production Medium/Short Haul Aircraft with 121 to 170 seats.

	Airbus	ATR	BAe	Beech	Boeing	Brad	Dornier	Douglas	Embraer	Fokker	Lockheed	SAAB
Total	257	0	0	0	496	0	0	347	0	0	0	0
% share	23.4	0.0	0.0	0.0	45.1	0.0	0.0	31.5	0.0	0.0	0.0	0.0

	Airbus	ATR	BAe	Beech	Boeing	Brad	Dornier	Douglas	Embraer	Fokker	Lockheed	SAAB
Backlog	63	0	0	0	80	0	0	6	0	0	0	0
% share	42.3	0.0	0.0	0.0	53.7	0.0	0.0	4.0	0.0	0.0	0.0	0.0

Airframe Maker Market Share by Date

Orders Analysis Reports
Airframe Manufacturer Market Share Summary

Report selection : New orders only from 01/1/1995 to 31/12/1995

New Orders

	Aircraft No.	Airbus	ATR	BAe	Beech	Boeing	Brad	Dornier	Douglas	Embraer	Fokker	SAAB
Long haul	193	23	0	0	0	162	0	0	8	0	0	0
% share		11.9	0.0	0.0	0.0	83.9	0.0	0.0	4.1	0.0	0.0	0.0
Short/Medium haul	807	83	52	85	19	218	80	49	106	20	62	33
% share		10.7	6.7	11.0	2.5	28.2	10.3	6.3	13.7	2.6	8.0	4.3

A/C Analytical Reports (continued)

Airframe Manufacturer Orders Analysis Reports

Airframe Maker Market Share (last 10 Years)

Airframe Manufacturer Market Share for Last 10 Years - New Orders Only Excluding Cancellations

Current Production Medium/Short Haul Aircraft with 121 to 170 seats.

1996		Airbus	ATR	BAe	Beech	Boeing	BRAD	Dornier	Douglas	Embraer	Fokker	SAAB
Total Orders	105	2	0	0	0	103	0	0	0	0	0	0
% share		1.9	0.0	0.0	0.0	98.1	0.0	0.0	0.0	0.0	0.0	0.0

1995		Airbus	ATR	BAe	Beech	Boeing	BRAD	Dornier	Douglas	Embraer	Fokker	SAAB
Total Orders	292	69	0	0	0	167	0	0	56	0	0	0
% share		23.6	0.0	0.0	0.0	57.2	0.0	0.0	19.2	0.0	0.0	0.0

1994		Airbus	ATR	BAe	Beech	Boeing	BRAD	Dornier	Douglas	Embraer	Fokker	SAAB
Total Orders	185	93	0	0	0	53	0	0	39	0	0	0
% share		50.3	0.0	0.0	0.0	28.6	0.0	0.0	21.1	0.0	0.0	0.0

1993		Airbus	ATR	BAe	Beech	Boeing	BRAD	Dornier	Douglas	Embraer	Fokker	SAAB
Total Orders	123	9	0	0	0	111	0	0	3	0	0	0

A/C Analytical Reports (continued)

Fleet Forecast Program

The Fleet Forecast program allows you to forecast demand (in terms of available seat-kilometres) for up to 25 years. The program then plots the seat-kilometre production of the existing fleet including deliveries of the existing order backlog less aircraft retirements - according to your selected retirement parameters.

The program is in an early release state and will be further developed over the coming months with the addition of seat category and aircraft role selections and a listing of retired aircraft by operator - your feedback would be most welcome.

Fleet Forecast Report Not Including Parked Aircraft

Selection: Operator = LTU, A/C Role = Passenger,

Retirement parameters   Age 30   Hours 100000   Cycles 100000   Noise stage 2 in 5 years

Forecast Supply and Demand showing ASK in millions
Supply   Demand

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Fleet Jan 1	25	26	26	26	26	26	26	26	26	26	26	26	26	26	24	23	23	22	22	21	20
Delivered	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Retired	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	1	0	1	1	
Fleet Dec 31	26	26	26	26	26	26	26	26	26	26	26	26	26	24	23	23	22	22	21	20	

20/08/1996   ACAS - Analytical Reports by AvSoft Information Systems, Rugby, England.   Page   1

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A/C Analytical Reports (continued)

Utilisation Forecast Program

The Utilisation Forecast program allows you to forecast annual flying hours and cycles for airframes and engines including deliveries of the existing order backlog (which you can amend by selecting a minimum annual delivery rate or by entering a delivery schedule for forecast years beyond the scope of the current order backlog) less aircraft retirements - according to your selected retirement parameters.

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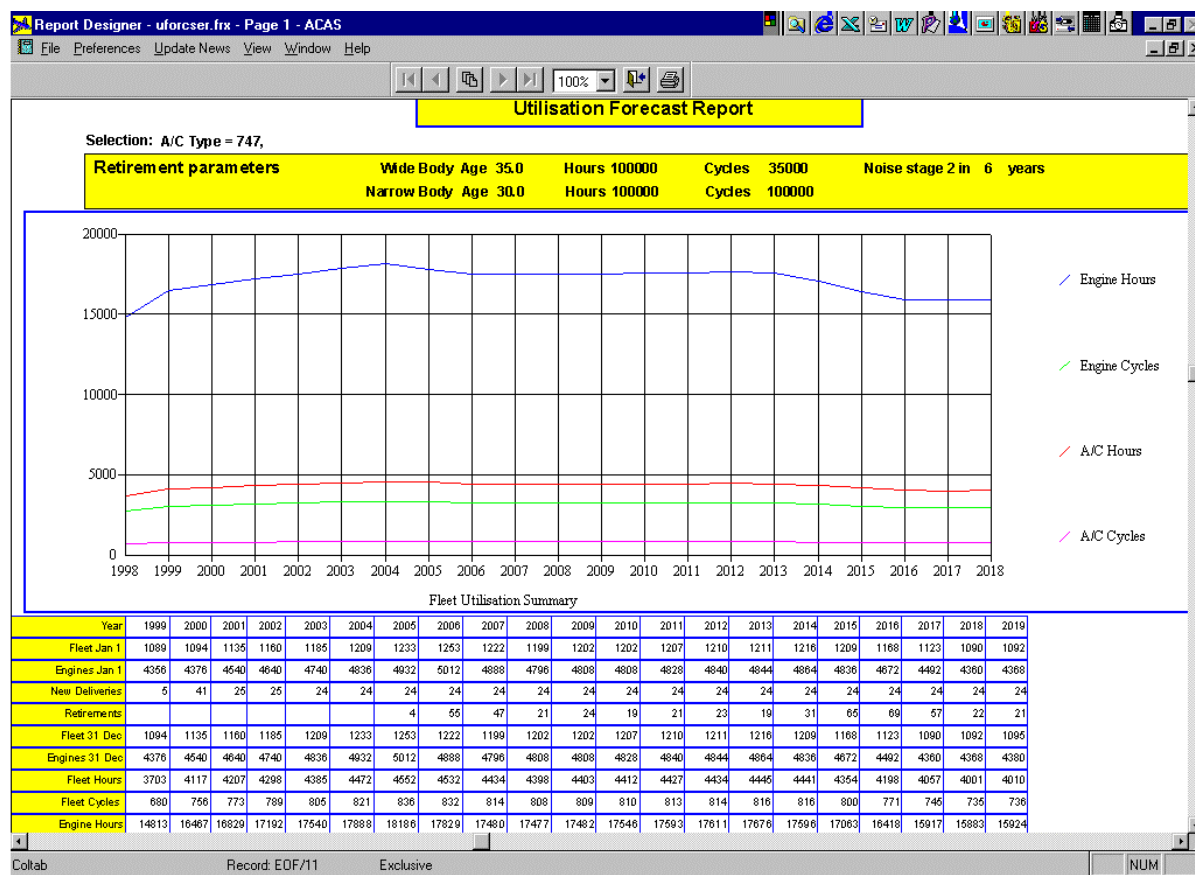
A/C Analytical Reports (continued)

Aircraft Trends Program

The Aircraft Trends program brings together historical and current fleet data plus orders and future deliveries to give access to World Cumulative Year-End Trends (showing, for example, a graph of Fleet Growth over up to 40 Years for Boeing 747 aircraft, including the option of Forecasting future retirements and deliveries) plus Annual Activity Reports showing orders, deliveries, backlog and fleet movements in each year, leased in, leased out, second-hand sales and purchases, etc.

World Cumulative Year-End Trends Report: A/C Type=747, Year Range=1969-1998

Annual Activity Report: A/C Type=747, Year Range= 1969-1998

30/08/00
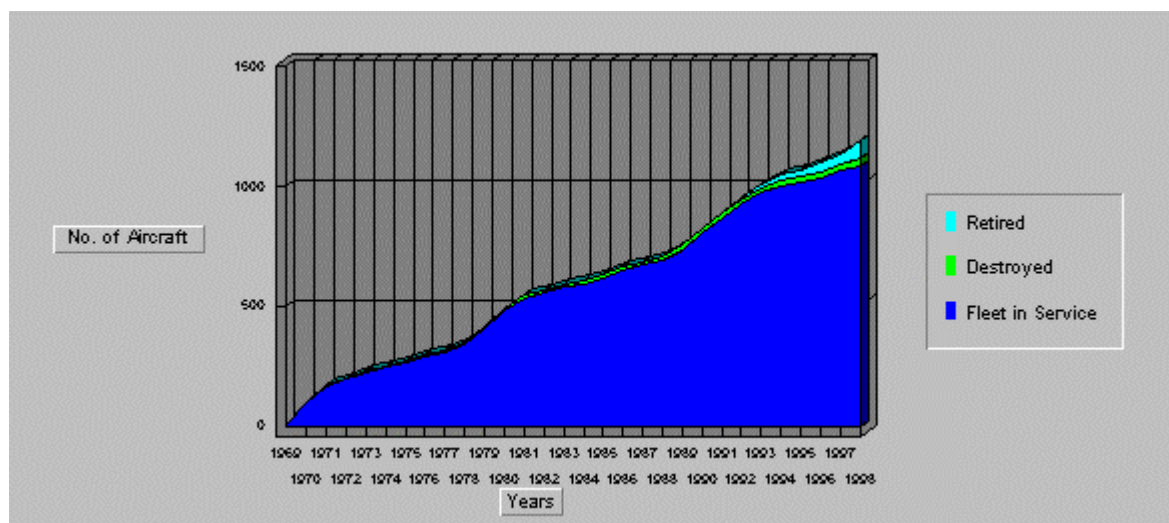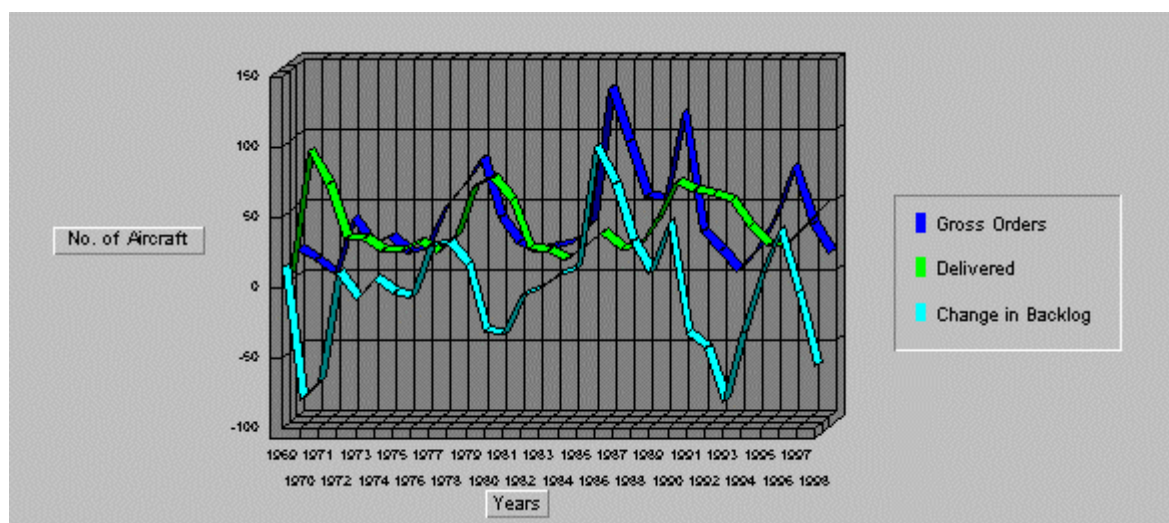
Maintenance Reports Menu

Airframe Inspection Intervals

Presents the maintenance schedules by operator and aircraft type

ACAS Maintenance Inspection Intervals Report

Report On: A/C Type = 747, Check Type = D Checks,

N/A = Not Applicable

Operator		Country			Region		
AER LINGUS		IRELAND			W.EUROPE		

A/C Type	Model	Check Type	Hours	Cycles	Days	Months	Date Reference
747	747-100	D Check				84	03/05/1994
Remarks							

Operator		Country			Region		
AEROLINEAS ARGENTINAS		ARGENTINA			S.AMERICA		

A/C Type	Model	Check Type	Hours	Cycles	Days	Months	Date Reference
747	747-200B	D Check	N/A	N/A	N/A	N/A	N/A
Remarks	B CHECK ITEMS IN A & C CHECKS; C CHECK IN 4 PHASES; D CHECK ITEMS IN C CHECK						

Operator		Country			Region		
AIR ATLANTA ICELANDIC		ICELAND			W.EUROPE		

A/C Type	Model	Check Type	Hours	Cycles	Days	Months	Date Reference
747	747-100	D Check	22,000				13/12/1994
Remarks							

Engine/APU Shop Visit Rates

Presents a list of Engine or APU on-wing lives (Detailed Report) or a scatter graph with Average, Maximum and Minimum Shop Visit Rates (Summary Report).

ACAS Engine Shop Visit Rate Report

Report On: Eng. Maker = CFM,World Region = A - Europe Including CIS,

Source: ACAS Maintenance Survey Returns from 13 Operators		
Minimum Value: 6,500	Average Value:11,820	Maximum Value:17,300
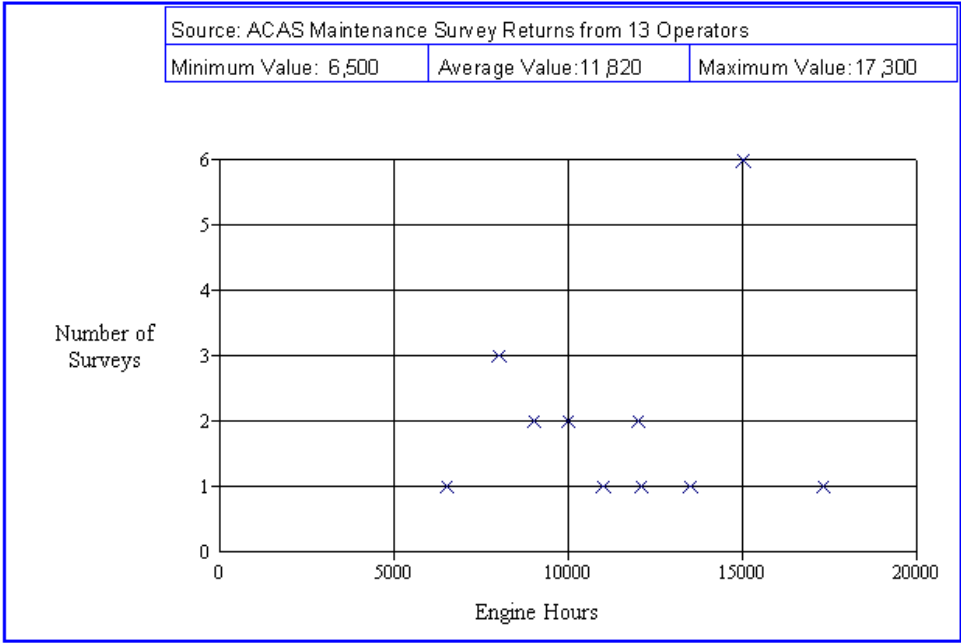
Overhaul Capabilities

Presents the Overhaul Capability of each Operator or Maintenance Facility which has responded to our overhaul capability surveys

Screen Extract of AEROMEXICO Airframe Overhaul Capability

ACAS Overhaul Capability Report

Report On: Operator=AEROMEXICO,

Operator/Contractor	Country	Region
AEROMEXICO	MEXICO	C.AMERICA

Operator/Contractor Details

Contact MANUEL REYES MEDINA	Title SNR VP OPERATIONS	
Tel. 52-5-723-8301	Fax 52-5-723-8460	SITA MEXDTAM
Regulatory Authority DGAC, FAA	Hangar Bays - Narrow-Body 3	Wide-Body 1
Approvals ASMY152F, ASMZ152F	Date Ref. 11/14/1995	
Shift Pattern VARIABLE	Capacity VARIABLE	

Airframe **A/C Type 757** **Model 757-200**

	In-House ?	3rd Party Service ?	Contracted Out ?	Contractor
A Check	Y	Y	N	
B Check	Y	Y	N	
C Check	Y	Y	N	
D Check	Y #	Y	N	
Strip/Paint	Y	Y	N	
Composites	Y	Y	N	
Remarks				
Contact	YOBANI MERCADO MONTES		Title THIRD PARTY SALES MANAGER	
Telephone	52-5-723-8377		Fax 52-5-723-8490	

Airframe **A/C Type 767** **Model 767-200**

	In-House ?	3rd Party Service ?	Contracted Out ?	Contractor
A Check	Y	Y	N	

30/08/00

Maintenance Forecasts - Component Removals

Presents a forecast of Component Removals

First screen - showing a graph and annual summary of the removals

Component Removals Forecast

Selection: Products = Precooler,

Refinement parameters	NarrowBody Age 30 Hours 100000 Cycles 100000	WideBody Age 30 Hours 100000 Cycles 95000	Noise stage 2 in 2001

Component details

Description	Part Number	Months	MTBUR Hours	Cycles	Value	Materials	Labour	Quantity
Precooler	ecz1	0	5000	0	2720.00	250.00	2470.00	2

Number of Components Removed by Year

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Fleet Jan 1	14	46	78	94	101	103	103	103	103	103	103
Delivered	32	32	16	7	2	0	0	0	0	0	0
Retired	0	0	0	0	0	0	0	0	0	0	0
Fleet Dec 31	46	78	94	101	103	103	103	103	103	103	103
Removals	14	20	14	30	88	94	118	60	36	88	50
Value * 1000	38.08	54.40	38.08	81.60	239.4	255.7	321.0	163.2	97.92	239.4	136.0
Labour*1000	34.58	49.40	34.58	74.10	217.4	232.2	291.5	148.2	88.92	217.4	123.5
Materials*1000	3.500	5.000	3.500	7.500	22.00	23.50	29.50	15.00	9.000	22.00	12.50
ManHrs*1000	.5320	.7600	.5320	1.140	3.344	3.572	4.484	2.280	1.368	3.344	1.900

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Maintenance Forecasts - Component Removals (continued)

Second (and subsequent) screens - showing removals by operator and year (and by month if the report is grouped by serial number)

		Component Removals Forecast		

Selection:

Year	Number of Removals	Operator	Type	Model
1996	1	AER LINGUS	146	146-300
1996	1	AIR BALTIC	146	146-RJ70
1996	2	AIR FOYLE	146	146-300Q
1996	1	AIR JET	146	146-200
1996	1	AIR JET	146	146-200Q
1996	1	AIR UK	146	146-100
1996	7	AIR UK	146	146-300
1996	1	BAE ASSET MNGMNT JETS	146	146-100
1996	2	BAE ASSET MNGMNT JETS	146	146-200
1996	1	BRITISH AEROSPACE (OPERATIONS)	146	146-300
1996	1	BUSINESS AIR	146	146-200
1996	1	CROSSAIR	146	146-300
1996	3	DEBONAIR	146	146-200
1996	7	DELTA AIR TRANSPORT	146	146-200
1996	1	HAMBURG AIRLINES	146	146-200
1996	1	HAMBURG AIRLINES	146	146-300
1996	1	JERSEY EUROPEAN AIRWAYS	146	146-100
1996	2	JERSEY EUROPEAN AIRWAYS	146	146-200
1996	7	MALMO AVIATION SCHEDULE	146	146-200
1996	1	MANX AIRLINES	146	146-200
1996	1	MERIDIANA	146	146-200
1996	1	MISTRAL AIR	146	146-200Q
1996	1	PALMAIR FLIGHTLINE	146	146-300
1996	1	PAN AIR	146	146-200Q
1996	1	PAUKN AIR	146	146-100
1996	3	RAF, 32 (THE ROYAL) SQUADRON	146	146-100
1996	5	TURKISH AIRLINES (THY)	146	146-RJ100

Maintenance Forecasts - Airframe Checks

Presents a forecast of Airframe Check Arisings

First screen - showing a graph and annual summary of the arisings

Airframe Check Forecast

Selection: Eng. Maker = RR, A/C Type = 757, World Region = A - Europe including CIS,

Retirement parameters: Narrow Body Age 30 Hours 100000 Cycles 100000 Wide Body Age 30 Hours 100000 Cycles 35000 Noise stage 2 in 2001

Check details

Description	Value	Materials	Labour
C Check	232500.0	5000.00	227500

Number of Checks by Year

Year	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Fleet Jan 1	85	85	89	89	89	89	89	89	89	89	89
Delivered	0	4	0	0	0	0	0	0	0	0	0
Retired	0	0	0	0	0	0	0	0	0	0	0
Fleet Dec 31	85	89	89	89	89	89	89	89	89	89	89
Checks	56	60	51	58	57	82	55	66	49	84	51
Value*1000	13020	13950	11858	13485	13253	14415	12766	15345	11383	14660	11858
Labour*1000	12740	13650	11608	13195	12968	14105	12513	15015	11148	14560	11603
Material*1000	280.0	300.0	255.0	290.0	285.0	310.0	275.0	330.0	245.0	320.0	255.0
ManHrs*1000	198.0	210.0	178.5	203.0	199.5	217.0	192.5	231.0	171.5	224.0	178.5

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Maintenance Forecasts - Airframe Checks (continued)

Second (and subsequent) screens - showing arisings by operator and year (and by month
if the report is grouped by serial number)

Airframe Check Forecast

Name of check   C Check

Selection: Eng. Maker = RR, A/C Type = 757, World Region = A - Europe including CIS,

Year	Number of Checks	Operator	Type	Model	Engine Type
1996	4	AIR 2000	757	757-200	RB211-5
1996	6	AIR 2000	757	757-200EM	RB211-5
1996	3	AIR EUROPA	757	757-200	RB211-5
1996	2	AIR EUROPA	757	757-200EM	RB211-5
1996	6	AIRTOURS	757	757-200	RB211-5
1996	16	BRITISH AIRWAYS	757	757-200	RB211-5
1996	4	BRITISH AIRWAYS	757	757-200EM	RB211-5
1996	3	LTE INTERNATIONAL AIRWAYS	757	757-200	RB211-5
1996	6	MONARCH AIRLINES	757	757-200EM	RB211-5
1996	4	TRANSAERO AIRLINES	757	757-200	RB211-5
1996	1	TRANSAERO AIRLINES	757	757-200EM	RB211-5
1997	6	AIR 2000	757	757-200	RB211-5
1997	6	AIR 2000	757	757-200EM	RB211-5
1997	3	AIR EUROPA	757	757-200	RB211-5
1997	3	AIR EUROPA	757	757-200EM	RB211-5
1997	2	AIRTOURS	757	757-200	RB211-5
1997	27	BRITISH AIRWAYS	757	757-200	RB211-5
1997	4	BRITISH AIRWAYS	757	757-200EM	RB211-5
1997	3	LTE INTERNATIONAL AIRWAYS	757	757-200	RB211-5
1997	1	MONARCH AIRLINES	757	757-200	RB211-5
1997	3	MONARCH AIRLINES	757	757-200EM	RB211-5
1997	4	TRANSAERO AIRLINES	757	757-200	RB211-5
1997	1	TRANSAERO AIRLINES	757	757-200EM	RB211-5
1998	2	AIR 2000	757	757-200	RB211-5
1998	6	AIR 2000	757	757-200EM	RB211-5
1998	2	AIR EUROPA	757	757-200	RB211-5
1998	3	AIR EUROPA	757	757-200EM	RB211-5
1998	5	AIRTOURS	757	757-200	RB211-5
1998	20	BRITISH AIRWAYS	757	757-200	RB211-5
1998	4	BRITISH AIRWAYS	757	757-200EM	RB211-5
1998	1	LTE INTERNATIONAL AIRWAYS	757	757-200	RB211-5
1998	1	MONARCH AIRLINES	757	757-200	RB211-5
1998	4	MONARCH AIRLINES	757	757-200EM	RB211-5

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Maintenance Forecasts - Individual A/C Airframe Checks

Presents a forecast of Airframe Check Arisings for an individual aircraft for which you know the last Check Event date, hours or cycles

First screen - showing a graph and annual summary of the arisings
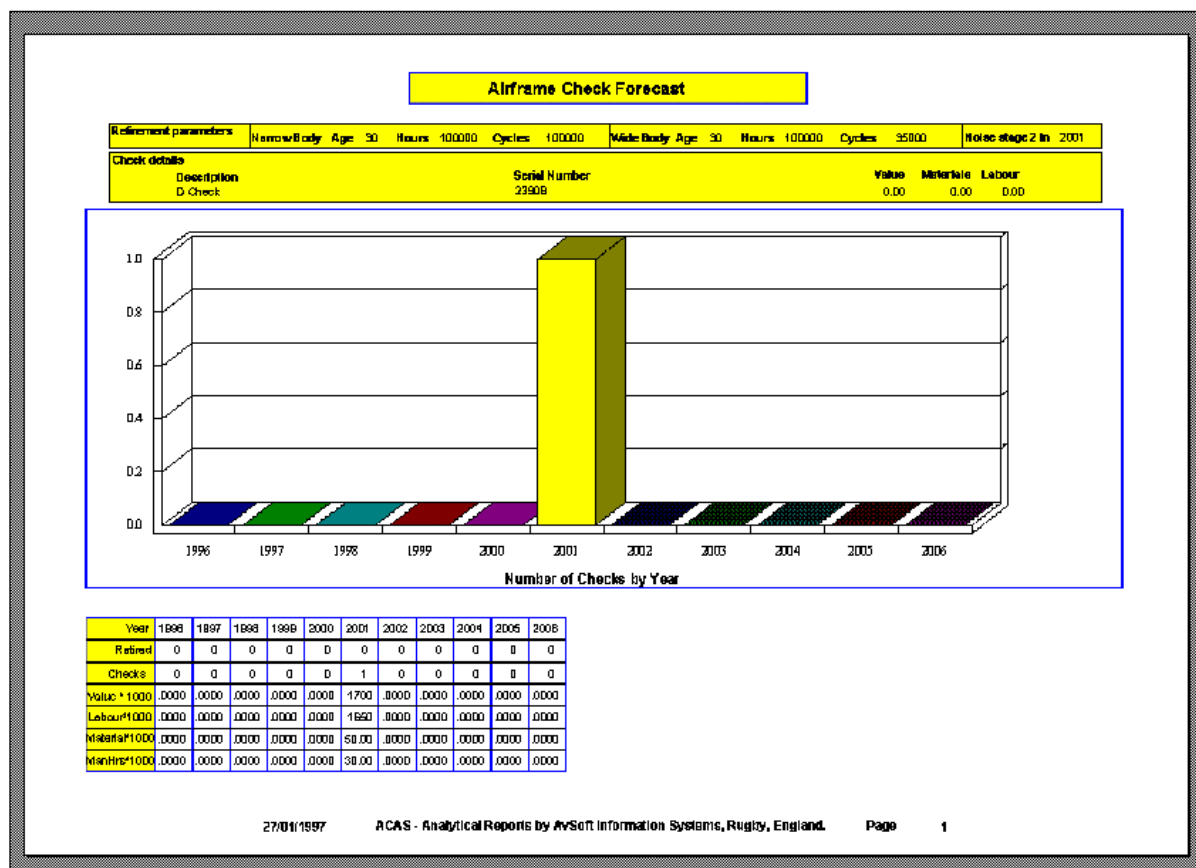
Maintenance Forecasts - Individual Airframe Checks (continued)

Second (and subsequent) screens - showing arisings by month and year

Airframe Check Forecast

A = Active, AR = Aircraft Retired, D = Delivered Aircraft.
AC = Airframe Check.

Name of check   D Check

Year Month	Aircraft Status	Check Status	Serial Number	Operator	Type	Model	Engine Type	Age	Hours	Cycles
2001 5	A	AC	23903	BRITISH AIRWAYS	747	747-400	RB211-524H	12.91	62166.22	7660.60

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Appendix E - ACAS Main Data File Structures and Decodes - in Data Field Order

Current Aircraft Data [ACDATA.DBF]

ACDATA contains 46 fields of information:

1	MNFCTR	-	Manufacturer
2	DATE	-	Data Reference Date
3	TYPE	-	Aircraft Type
4	MODEL	-	Model Series
5	OPID	-	ICAO 3 letter Operator Code
6	OPERATOR	-	Operator Name
7	FSLGE	-	Fuselage Number (production sequence)
8	SERIAL	-	Aircraft Serial Number (Constructor No)
9	EMKR	-	Engine Manufacturer
10	ENGINE	-	Engine Type
11	ENO	-	Number of Engines
12	MTOW	-	Maximum Take-off Weight (lbs x 1000)
13	ACREG	-	Aircraft Registration
14	OPSERV	-	Current Operator Delivery Date
15	SERVICE	-	Original Delivery Date (first operator)
16	AGE	-	Aircraft Age (to data reference date)
17	FHSCUM	-	Cumulative Fuselage Flying Hours (since original delivery date)
18	LDGSCUM	-	Cumulative Fuselage Landings (since original delivery date)
19	OPCUMH	-	Cumulative Hours Current Operator
20	OPCUMC	-	Cumulative Landings Current Operator
21	ANNFHSCUR	-	Flying Hours (last twelve months)
22	ANNLDGSCUR	-	Landings (last twelve months)
23	OPH12M	-	Flying Hours (last 12 months current operator)
24	OPC12M	-	Landings (last 12 months current operator)
25	ANNFHSCUM	-	Annual Average Flying Hours (since original delivery date)
26	ANNLDGSCUM	-	Annual Average Landings (since original delivery date)
27	CYCLECUR	-	Average Cycle or Flight Time (last twelve months)
28	CYCLECUM	-	Average Cycle or Flight Time (since original delivery date)
29	UTIL	-	Average Daily Utilisation (hours) (last twelve months)
30	UTILCUM	-	Average Daily Utilisation (hours) (since original delivery date)
31	COUNTRY	-	Operator Country of Origin
32	REGION	-	Operator World Region of Origin
33	SERVYY	-	Aircraft Service Entry Year
34	SERVMM	-	Aircraft Service Entry Month
35	SERVDD	-	Aircraft Service Entry Day
36	MTHFH	-	Latest Month Flying Hours
37	MTHLD	-	Latest Month Landings
38	L3MH	-	Last 3 Month's Flying Hours
39	STATUS	-	Current Ownership Status Code - see following page for decodes
40	NOISE	-	FAR Part 36 Noise Stage Compliance
41	ROLE	-	Aircraft Operational Role - see following page for decodes
42	SEATS	-	Aircraft Seat Category Code - see following page for decodes
43	CHANGE	-	Denotes whether A/C new to Operator
44	ONID	-	Legal Owner ID Code - references ONREF.DBF
45	T	-	Defines aircraft as Jet or Turboprop
46	MAINREG	-	Major World Region code - see following page for decodes

The above data fields are for aircraft currently in service - (Flying hours are wheels off to wheels on)

ACDATA.DBF - Coded Field Decodes

STATUS Field Decodes
B   purchased second-hand
D   owned since new
R   returned to owner operator
L   leased
P   precertified
X   repossessed
Z   sub-leased

ROLE Field Decodes (Operational Role)
A   ambulance
C   corporate/government
F   freighter
J   military freighter
K   military tanker
L   returned to lessor
M   military/passenger/trainer/utility
P   passenger
R   returned to manufacturer/development aircraft
U   utility
W   AEW/SAR/patrol

T Field Decodes
J   Widebody Jet
N   Narrowbody Jet (100+ seats)
P   Military Transport
R   Regional Jet (<100 seats)
T   Turboprop
B   Business Jet
D   Russian-built Jet (Optional Data)
S   Russian-built Turboprop (Optional Data)

SEATS Field Decodes
1   12-19 seats
2   20-40 seats
3   41-70 seats
4   71-120 seats
5   121-170 seats
6   171-240 seats
7   241-350 seats
8   350+ seats

CHANGE Field Decodes
+ aircraft acquired by current operator during last 12 months
* aircraft acquired by current operator in latest month

MAINREG Field Decodes
A = Europe (including CIS)
B = Africa
C = Middle East
D = ASIA
E = Pacific Rim
F = North America
G = South America

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Historical Aircraft Data [DEASE.DBF]

DEASE contains 22 fields of information:

MNFCTR	-	Manufacturer
TYPE	-	Aircraft Type
MODEL	-	Model Series
FSLGE	-	Fuselage Number (production sequence)
SERIAL	-	Aircraft Serial Number (Constructor No)
EMKR	-	Engine Manufacturer
ENGINE	-	Engine Type
MTOW	-	Maximum Take-off Weight (lbs x 1000)
OPID	-	ICAO 3 letter operator code
OPERATOR	-	Operator Name
ACREG	-	Aircraft Registration
TNO	-	Transaction Number
FROM	-	In Service From Date for Each Operator
TO	-	In Service To Date for Each Operator
FHS	-	Flying Hours for Each Operator
LDGS	-	Landings for Each Operator
REMARKS	-	Relevant Remarks e.g. unrepairable or retired
COUNTRY	-	Country of Origin (each operator)
REGION	-	World Region (each operator)
MAINREG	-	Major World Region code - see following page for decodes
STATUS	-	transaction type code
NOISE	-	FAR Part 36 Noise Stage Compliance
ROLE	-	Aircraft Operational Role - see following page for decodes
T	-	Defines aircraft as Jet or Turboprop

(Flying hours are wheels off to wheels on)

DEASE therefore presents the operator history with individual operator flying hours and landings for every aircraft manufactured for those types contained in the Database including aircraft written off or retired.

Where no date appears in the TO field, the aircraft is still in service with that operator.

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DEASE.DBF Coded Field Decodes
ROLE Field Decodes (Operational Role)

A   ambulance
C   corporate/government
F   freighter
J   military freighter
K   military tanker
L   returned to lessor
M   military/passenger/trainer/utility
P   passenger
R   returned to manufacturer/development aircraft
U   utility
W   AEW/SAR/patrol

STATUS Field Decodes

B   purchased second-hand
C   converted
D   delivered new
E   engine change
G   merged
H   hush kit conversion
I   bought L/I (a/c bought by a financial institution with the current operator Lease Intact)
L   leased
N   operator name change
Q   owner name change
P   precertified
R   returned
T   reregistered
U   unrepairable/destroyed (written-off as a result of an accident)
V   freighter conversion
X   repossessed
Y   dismantled (retired)
Z   sub-leased

REMARKS Field Decodes

d   unrepairable/destroyed (for previous records of destroyed aircraft)
U   unrepairable/destroyed (for last record of destroyed aircraft)
r   dismantled/retired (for previous records of retired aircraft)
Y   dismantled/retired (for last record of retired aircraft)

MAINREG Field Decodes

A = Europe (including CIS)
B = Africa
C = Middle East
D = ASIA
E = Pacific Rim
F = North America
G = South America

T Field Decodes

J   Widebody Jet
N   Narrowbody Jet (100+ seats)
P   Military Transport
R   Regional Jet (<100 seats)
T   Turboprop
B   Business Jet
D   Russian-built Jet (Optional Data)
S   Russian-built Turboprop (Optional Data)

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Contact Manager File Structures

Structure for table:

CATEGORY.DBF

COMP_CAT.DBF

COMP_NOT.DBF

COMPANYS.DBF

CONT_CAT.DBF

CONT_NOT.DBF

CONTACTS.DBF

PHONES.DBF

CONT_PHO.DBF

CATEGORY.DBF

Structure for table: CATEGORY.DBF
Code Page: 1252

Field	Field Name	Type	Width	Description
1	CATID	Numeric	10	Unique category Id
2	CATEGORY	Character	50	Category
3	DELETED	Numeric	1	1 if record deleted
4	FILE	Character	10	Acas file this relates to
5	FIELD	Character	14	Acas field this relates to
6	TYPE	Character	10	Type of Category ie. contact
7	ACATID	Numeric	10	AvSoft Unique category Id
8	USEREDITED	Logical	1	True if record is user edited

** Total **   107

COMP_CAT.DBF

Structure for table: COMP_CAT.DBF
Code Page: 1252

Field	Field Name	Type	Width	Description
1	COMPID	Numeric	10	Unique Company Id
2	ACOMPID	Numeric	10	AvSoft Unique Company Id
3	CATID	Numeric	10	Category Id
4	ACATID	Numeric	10	Avsoft Category Id
5	CATEGORY	Character	50	Category
6	DELETED	Numeric	1	if record is deleted
7	ACOMPCAT	Character	20	Unique company /category

CONT_PHO.DBF

Structure for table: CONT_PHO.DBF
Code Page: 1252

Field	Field Name	Type	Width	Description
1	CONTACTID	Numeric	10	Unique contact Id
2	ACONTACTID	Numeric	10	Avsoft Unique Id
3	PHONEDESC	Character	20	Phone type description ie "Contact Phone"
4	PHONE	Character	50	Phone number or email address
5	DELETED	Numeric	1	1 if record is deleted

COMP_NOT.DBF

Structure for table: COMP_NOT.DBF
Memo file block size: 64
Code Page: 1252

Field	Field Name	Type	Width	Description
1	COMPID	Numeric	10	Unique company Id
2	NOTES	Memo	10	notes field
3	ACOMPID	Numeric	10	AvSoft Unique company id
4	DELETED	Numeric	1	1 if record is deleted
5	USEREDITED	Logical	1	1 if record is user edited

PHONES.DBF

Structure for table: PHONES.DBF
Code Page: 1252

Field	Field Name	Type	Width	description
1	PHONEDESC	Character	20	Phone type
2	PHONEID	Numeric	10	unique phone type Id
3	APHONEID	Numeric	10	AvSoft Unique phone type Id
4	DELETED	Numeric	1	1 if the record is deleted

CONT_NOT.DBF

Structure for table: CONT_NOT.DBF
Memo file block size: 64
Code Page: 1252

Field	Field Name	Type	Width	Description
1	CONTACTID	Numeric	10	Unique contact Id
2	ACONTACTID	Numeric	10	AvSoft Unique Id
3	NOTES	Memo	10	Notes Field
4	DELETED	Numeric	1	1 if record was deleted
5	USEREDITED	Logical	1	1 if user has edited this record

CONTACTS.DBF

Structure for table: CONTACTS.DBF
Code Page: 1252
Field Field Name   Type   Width   Description
  1 CONTACTID   Numeric   10   Unique contact Id
  2 COMPID   Numeric   10   Unique company Id
  3 DELETED   Numeric   1   1 if record is deleted
  4 TITLE   Character   10   Contact's Title
  5 FORENAME   Character   20   Contact's fore name
  6 MIDDLENAMECharacter   20   Contact's middle name
  7 SURNAME   Character   20   Contact's surname
  8 SUFFIX   Character   10   Contact's suffix
  9 MPOSITION   Character   30   Contact's position (job description)
 10 CONT_SITA   Character   10   Contact's SITA
 11 SNAME   Character   50   Concatenation of the Contact's Name
 12 USEREDITED Logical   1   1 if the user has edited this contact
 13 UPDATED   Logical   1   true if record has been updated by AvSoft
 14 UPDON   Date   8   Updated Date
 15 CHANGEDATEDate   8   date that the record was last edited
 16 ACONTACTID Numeric   10   Unique AvSoft contact Id
 17 ACOMPID   Numeric   10   Unique AvSoft company Id

COMPANYS.DBF

Structure for table: COMPANYS.DBF
Code Page: 1252

Field	Field Name	Type	Width	Description
1	DELETED	Numeric	1	1 if record is deleted
2	COMPID	Numeric	10	Unique company Id
3	COMP_SITA	Character	10	company SITA
4	IATA	Character	2	company IATA
5	ICAO	Character	3	Company ICAO
6	CODE	Character	10	Users Company code
7	COMPANY	Character	40	company name
8	ADDRESS1	Character	30	address 1
9	ADDRESS2	Character	30	address 2
10	ADDRESS3	Character	30	address 3
11	ADDRESS4	Character	30	address 4
12	CITY	Character	20	city
13	STATE	Character	20	State
14	STATECODE	Character	2	State code ie OH
15	ZIP	Character	10	company Zip or Post code
16	COUNTRY	Character	30	Country
17	REGION	Character	20	Region
18	WEBSITE	Character	50	Web site address
19	CHANGEDATE	Date	8	Date record was lasted edited
20	HEADOFFICE	Numeric	10	Head Office Code (not used at present)
21	USEREDITED	Logical	1	True if record was edited by the user
22	UPDATED	Logical	1	True if Updated by AvSoft
23	UPDON	Date	8	last Updated date
24	MAINPHONE	Character	50	companies main phone number
25	MAINFAX	Character	50	companies main fax number
26	MAINEMAIL	Character	50	companies main email address
27	MAINREGION	Character	20	Main region
28	ACOMPID	Numeric	10	Avsoft unique Id

CONT_CAT.DBF

Structure for table: CONT_CAT.DBF
Code Page: 1252

Field	Field Name	Type	Width	Description
1	CONTACTID	Numeric	10	Unique contact Id
2	ACONTACTID	Numeric	10	Avsoft contact unique Id
3	CATID	Numeric	10	Category id
4	ACATID	Numeric	10	AvSoft category Id
5	CATEGORY	Character	50	Category
6	DELETED	Numeric	1	1 if record has been deleted
6	ACONTCAT	Character	20	Unique contact / category

Airline Head Office Addresses [ADDRESS.DBF]

DATE	-	Date on which the Operator supplied Address Details
CODE	-	IATA Two-Letter Code
OPERATOR	-	Operator Name
NAME1	-	Name of President/CEO
TITLE1	-	Title of Name 1
NAME2	-	Name of VP Operations
TITLE2	-	Title of Name 2
NAME3	-	Name of VP Route Planning
TITLE3	-	Title of Name 3
NAME4	-	Name of VP Fleet Planning
TITLE4	-	Title of Name 4
NAME5	-	Name of Finance Director
TITLE5	-	Title of Name 5
NAME6	-	Name of Head of Reservations
TITLE6	-	Title of Name 6
ADDRESS1	-	Address Line 1
ADDRESS2	-	Address Line 2
ADDRESS3	-	Address Line 3
CITY	-	City of Operator
STATE	-	State of Operator
STATEID	-	State Code
ZIP	-	Zip/Postal Code of Operator
COUNTRY	-	Country of Operator
REGION	-	World Region of Operator
MPHONE	-	Main Telephone Number
PHONE	-	Alternate Telephone Number
MFAX	-	Main Fax Number
FAX	-	Alternate Fax Number
EMAIL	-	Email Address
SITA	-	SITA Address
NOTES1	-	Notes Line 1
NOTES2	-	Notes Line 2

Engine/APU Shop Visit Rates [ENGCHEK.DBF]

APUMKR	-	APU Manufacturer
APU	-	APU Type
APUAFHRS	-	APU Life in Airframe Flying Hours
APUHRS	-	APU Life in APU Hours
APUCYCS	-	APU Life in APU Cycles
COUNTRY	-	Operator Country of Origin
DATE	-	Date on which the Operator supplied data
ECYCS	-	Engine Life in Cycles
EHRS	-	Engine Life in Hours
ENGINE	-	Engine Type
EMKR	-	Engine Manufacturer
MAINREG	-	Operator Major World Region of Origin
MODEL	-	Aircraft Model
OPERATOR	-	Operator Name
REGION	-	Operator World Sub-Region of Origin
TYPE	-	Aircraft Type

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Maintenance Facility Addresses (Airlines & Independents) [MADDRESS.DBF]

CHANGEDATE	-	Date on which the Facility supplied Address Details
CODE	-	IATA Two-Letter Code
OPERATOR	-	Operator Name
NAME1	-	Name of Technical Director/VP Maintenance
TITLE1	-	Title of Name 1
NAME2	-	Name of Engineering Manager
TITLE2	-	Title of Name 2
NAME3	-	Name of Maintenance Planning Manager
TITLE3	-	Title of Name 3
NAME4	-	Name of Engineering Purchasing Manager
TITLE4	-	Title of Name 4
NAME5	-	Name of Maintenance Sales & Marketing Manager
TITLE5	-	Title of Name 5
NAME6	-	Name of Other Useful Contact
TITLE6	-	Title of Name 6
ADDRESS1	-	Address Line 1
ADDRESS2	-	Address Line 2
ADDRESS3	-	Address Line 3
ADDRESS4	-	Address Line 4
CITY	-	City of Operator
STATE	-	State of Operator
STATEID	-	State Code
ZIP	-	Zip/Postal Code of Operator
COUNTRY	-	Country of Operator
REGION	-	World Region of Operator
MPHONE	-	Main Telephone Number
PHONE	-	Alternate Telephone Number
MFAX	-	Main Fax Number
FAX	-	Alternate Fax Number
EMAIL	-	Email Address
SITA	-	SITA Address
NOTES1	-	Notes Line 1
NOTES2	-	Notes Line 2

Miscellaneous Aircraft Data [ACBITS.DBF]

SERIAL	-	Aircraft Serial Number
TYPE	-	Aircraft Type
BSERIES	-	Boeing Customer-Series
BLOCK	-	Boeing Block Number
APUMKR	-	APU Manufacturer
APU	-	APU Type
PMKR	-	Propeller Manufacturer
PROPELLER	-	Propeller Type

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Aircraft Orders [ORDERS.DBF]

DATE	-	Data Reference Date
MNFCTR	-	Airframe Manufacturer
CUSTOMER	-	Customer
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
ROLE	-	Aircraft Operational Role
TOTAL	-	Total Number of Aircraft Ordered
OUTSTNDG	-	Order Backlog
DELIVERED	-	Number of Aircraft Ordered which have been delivered to date
OPTION	-	Number of Aircraft on Option
E	-	Estimated Delivery Schedule if E = 'Y'
ACONDATE	-	Airframe Order Contract Date
ECONDATE	-	Engine Order Contract Date
FIRSTDLVRY	-	First Aircraft Delivery Date
EMKR	-	Engine Manufacturer
ENGINE	-	Engine Type
ENO	-	Number of Engines
OM1 – OM24	-	Deliveries in Month 1 to Month 24
DYEAR1 - DYEAR10	-	Deliveries in Year 1 to Year 10
OPERATOR	-	Operator Name
COUNTRY	-	Country of Operator
REGION	-	World Sub-Region of Operator
MAINREG	-	Main World Region of Operator
OPID	-	ICAO 3 letter operator code
CANX	-	Number of cancelled aircraft
RANGE	-	Aircraft Range (S = Short/Medium, L = Long)
SEATCAT	-	Aircraft Seating Category
CURAFM	-	Whether Aircraft is in Current Production (C = Yes)
CURENG	-	Whether Engine Type is in Current Production (J = Yes for Jet, T = Yes for Turboprop)
ENGSIZE	-	Engine Size (L = Large > 40,000lbs thrust, S = Small/Medium

SEATCAT Field Decodes   ROLE Field Decodes (please see ACDATA decodes)

1 - 12-19 seats
2 - 20-40 seats
3 - 41-70 seats
4 - 71-120 seats
5 - 121-170 seats
6 - 171-240 seats
7 - 241-350 seats
8 - 350+ seats

Latest Month Aircraft Orders [NEWORDER.DBF]

MTH	-	Data Reference Month
MNFCTR	-	Airframe Manufacturer
CUSTOMER	-	Customer
MODEL	-	Aircraft Model
ENGINE	-	Engine Type
FIRSTDLVRY	-	First Aircraft Delivery Date
NO	-	Number of Aircraft Ordered

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Latest Month Deliveries [NEWDLV.DBF]
MNFCTR	-	Airframe Manufacturer
MODEL	-	Aircraft Model
OPERATOR	-	Operator Name
ACREG	-	Aircraft Registration
SERVICE	-	Date of First Service
SERVYY	-	Year of First Service
SERVMM	-	Month of First Service
SERVDD	-	Day of First Service
AGE	-	Aircraft Age

Legal Owner File [ONREF.DBF]
ONID	-	Legal Owner ID Code
OWNER	-	Legal Owner Name
ADDRESS1	-	Address Line 1
ADDRESS2	-	Address Line 2
ADDRESS3	-	Address Line 3
COUNTRY	-	Country of Legal Owner
CITY	-	City of Legal Owner
STATE	-	State of Legal Owner
STATEID	-	2 Letter State Code
ZIP	-	Zip or Postcode
NAME1	-	Contact Name
TITLE1	-	Title of Contact Name
REGION	-	World Region of Legal Owner
PHONE	-	Telephone Number
EMAIL	-	Email Address
FAX	-	Fax Number
SITA	-	SITA/ARINC address

Operator Reference File [OPREF.DBF]
IATACODE	-	IATA Two-Letter Code
ICAOCODE	-	ICAO Three-Letter Code
OPERATOR	-	Operator Name
COUNTRY	-	Country of Operator
REGION	-	World Region of Operator

Fleet Performance [FLEET.DBF]
OPERATOR	-	Operator Name
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
EMKR	-	Engine Manufacturer
ENGINE	-	Engine Type
SERIAL	-	Aircraft Serial Number
H1 to H24	-	Month 1 to Month 24 Flying Hours
C1 to C24	-	Month 1 to Month 24 Landings
COUNTRY	-	Country of Operator
REGION	-	World Sub-Region of Operator
MAINREG	-	Main World Region of Operator

+ Date Reference File [FLEETREF.DBF]
TIMREF	-	Month 24
YEAR	-	Year of Month 24

TIME-SERIES Program Files
Optional Time-Series File: TIMEHRS.DBF has a similar structure to FLEET.DBF but only contains flying hours - H1 through to current month, while TIMECYCL.DBF only contains landings - C1 through to current month. H1 and C1 = January 1990, H132 and C132 = December 2000

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Overhaul Facility Details [MCAP.DBF]

DATE   -   Date on which Facility supplied Overhaul Capability Details
OPERATOR   -   Facility Name
VP   -   Contact Name of Technical Director/VP Maintenance
TITLE   -   Title of Contact Name
VPP   -   Contact Name Telephone Number
VPF   -   Contact Name Fax Number
SITA   -   SITA Number
RA   -   Approval Authority
RAPPS   -   Approvals
HN   -   Number of Narrow-Body Hangar Bays
HW   -   Number of Wide-Body Hangar Bays
SHIFT   -   Shift Pattern
MANCAP   -   Manhour Capacity
COUNTRY   -   Country in which Facility is Located
REGION   -   World Region in which Facility is Located
MAINREG   -   Main World Region of Operator

Airframe Overhaul Capability [ACAP.DBF]

OPERATOR   -   Facility Name
MNFCTR   -   Airframe Manufacturer
TYPE   -   Aircraft Type
MODEL   -   Aircraft Model
A   -   In-House Capability for A Check
B   -   In-House Capability for B Check
C   -   In-House Capability for C Check
D   -   In-House Capability for D Check
SP   -   In-House Capability for Strip/Paint
AC   -   In-House Capability for Composites
ATP   -   Third-Party Service offered for A Check
BTP   -   Third-Party Service offered for B Check
CTP   -   Third-Party Service offered for C Check
DTP   -   Third-Party Service offered for D Check
SPTP   -   Third-Party Service offered for Strip/Paint
ACTP   -   Third-Party Service offered for Composites
ACO   -   Whether A Check is Contracted Out
BCO   -   Whether B Check is Contracted Out
CCO   -   Whether C Check is Contracted Out
DCO   -   Whether D Check is Contracted Out
SPCO   -   Whether Strip/Paint is Contracted Out
ACCO   -   Whether Composite Repairs are Contracted Out
DNUM   -   Number of D Checks performed by Facility
ACON   -   A Check Contractor
BCON   -   B Check Contractor
CCON   -   C Check Contractor
DCON   -   D Check Contractor
SPCON   -   Strip/Paint Contractor
ACCON   -   Composites Repair Contractor
AREMARKS   -   Remarks - Limitations/Special Capabilities etc
ACONTACT   -   Airframe Overhaul Contact Name
ACONTITLE   -   Airframe Overhaul Contact Title
ACONTACTP   -   Airframe Overhaul Contact Telephone Number
ACONTACTF   -   Airframe Overhaul Contact Fax Number

Airframe Component Overhaul Capability [ACOMCAP.DBF]

OPERATOR	-	Facility Name
MNFCTR	-	Airframe Manufacturer
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
ACOM1	-	In-House Capability for Analogue Avionics Overhaul
ACOM2	-	In-House Capability for Digital Avionics Overhaul
ACOM3	-	In-House Capability for Electrical Component Overhaul
ACOM4	-	In-House Capability for Hydraulic Component Overhaul
ACOM5	-	In-House Capability for Pneumatic Component Overhaul
ACOM6	-	In-House Capability for Propeller Component Overhaul
ACOM7	-	In-House Capability for Landing Gear Component Overhaul
ACOM8	-	In-House Capability for Wheels/Tyres/Brakes Overhaul
ACOM9	-	In-House Capability for Transparencies/Glass Overhaul
ACOM10	-	In-House Capability for Interiors/Furnishing Overhaul
ACOM1TP	-	Third-Party Service offered for Analogue Avionics Overhaul
ACOM2TP	-	Third-Party Service offered for Digital Avionics Overhaul
ACOM3TP	-	Third-Party Service offered for Electrical Component O\haul
ACOM4TP	-	Third-Party Service offered for Hydraulic Compnt Overhaul
ACOM5TP	-	Third-Party Service offered for Pneumatic Compnt Overhaul
ACOM6TP	-	Third-Party Service offered for Propeller Overhaul
ACOM7TP	-	Third-Party Service offered for Landing Gear Overhaul
ACOM8TP	-	Third-Party Service offered for Wheels/Tyres/Brakes Overhaul
ACOM9TP	-	Third-Party Service offered for Transparencies/Glass Overhaul
ACOM10TP	-	Third-Party Service offered for Interiors/Furnishing Overhaul
ACOM1CO	-	Whether Analogue Avionics Overhaul is Contracted Out
ACOM2CO	-	Whether Digital Avionics Overhaul is Contracted Out
ACOM3CO	-	Whether Electrical Component Overhaul is Contracted Out
ACOM4CO	-	Whether Hydraulic Component Overhaul is Contracted Out
ACOM5CO	-	Whether Pneumatic Component Overhaul is Contracted Out
ACOM6CO	-	Whether Propeller Overhaul is Contracted Out
ACOM7CO	-	Whether Landing Gear Overhaul is Contracted Out
ACOM8CO	-	Whether Wheels/Tyres/Brakes Overhaul is Contracted Out
ACOM9CO	-	Whether Transparencies/Glass Overhaul is Contracted Out
ACOM10CO	-	Whether Interiors/Furnishing Overhaul is Contracted Out
ACOM1CON	-	Analogue Avionics Overhaul Contractor
ACOM2CON	-	Digital Avionics Overhaul Contractor
ACOM3CON	-	Electrical Components Overhaul Contractor
ACOM4CON	-	Hydraulic Components Overhaul Contractor
ACOM5CON	-	Pneumatic Components Overhaul Contractor
ACOM6CON	-	Propeller Overhaul Contractor
ACOM7CON	-	Landing Gear Overhaul Contractor
ACOM8CON	-	Wheels/Tyres/Brakes Overhaul Contractor
ACOM9CON	-	Transparencies/Glass Overhaul Contractor
ACOM10CON	-	Interiors/Furnishing Overhaul Contractor
ACOMREM	-	Remarks - Limitations/Special Capabilities etc
ACOMCON	-	Airframe Component Overhaul Contact Name
ACOMCONT	-	Airframe Component Overhaul Contact Title
ACOMCONP	-	Airframe Component Overhaul Contact Telephone Number
ACOMCONF	-	Airframe Component Overhaul Contact Fax Number

Engine Overhaul Capability [ECAP.DBF]

OPERATOR	-	Facility Name
MNFCTR	-	Airframe Manufacturer
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
EMKR	-	Engine Manufacturer
ENGINE	-	Engine Type
EOVHL	-	In-House Capability for Engine Overhaul
HSI	-	In-House Capability for Hot Section Inspection
EOVHLTP	-	Third-Party Service offered for Engine Overhaul
HSITP	-	Third-Party Service offered for Hot Section Inspections
EOVHLCO	-	Whether Engine Overhaul is Contracted Out
HSICO	-	Whether Hot Section Inspection is Contracted Out
ECON	-	Engine Overhaul Contractor
HSICON	-	Hot Section Inspection Contractor
EREMARKS	-	Remarks - Limitations/Special Capabilities etc
ECONTACT	-	Engine Overhaul Contact Name
ECONTACTT	-	Engine Overhaul Contact Title
ECONTACTP	-	Engine Overhaul Contact Telephone Number
ECONTACTF	-	Engine Overhaul Contact Fax Number

Engine Component Overhaul Capability [ECOMCAP.DBF]

OPERATOR	-	Facility Name
MNFCTR	-	Airframe Manufacturer
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
EMKR	-	Engine Manufacturer
ENGINE	-	Engine Type
ECOM1	-	In-House Capability for LRU Overhaul
ECOM2	-	In-House Capability for ADG* Overhaul
ECOM3	-	In-House Capability for Electrical System Overhaul
ECOM4	-	In-House Capability for Fuel System Overhaul
ECOM5	-	In-House Capability for Lubrication System Overhaul
ECOM6	-	In-House Capability for Thrust Reverser Overhaul
ECOM1TP	-	Third-Party Service offered for LRU Overhaul
ECOM2TP	-	Third-Party Service offered for ADG* Overhaul
ECOM3TP	-	Third-Party Service offered for Electrical System Overhaul
ECOM4TP	-	Third-Party Service offered for Fuel System Overhaul
ECOM5TP	-	Third-Party Service offered for Lubrication System Overhaul
ECOM6TP	-	Third-Party Service offered for Thrust Reverser Overhaul
ECOM1CO	-	Whether LRU Overhaul is Contracted Out
ECOM2CO	-	Whether ADG* Overhaul is Contracted Out
ECOM3CO	-	Whether Electrical Components are Contracted Out
ECOM4CO	-	Whether Fuel System Components are Contracted Out
ECOM5CO	-	Whether Lube System Components are Contracted Out
ECOM6CO	-	Whether Thrust Reverser Components are Contracted Out
ECOM1CON	-	LRU Overhaul Contractor
ECOM2CON	-	ADG* Overhaul Contractor
ECOM3CON	-	Electrical System Overhaul Contractor
ECOM4CON	-	Fuel System Overhaul Contractor
ECOM5CON	-	Lubrication System Overhaul Contractor
ECOM6CON	-	Thrust Reverser Overhaul Contractor
ECOMREM	-	Remarks - Limitations/Special Capabilities etc
ECOMCON	-	Engine Component Overhaul Contact Name
ECOMCONT	-	Engine Component Overhaul Contact Title
ECOMCONP	-	Engine Component Overhaul Contact Telephone Number
ECOMCONF	-	Engine Component Overhaul Contact Fax Number

- ADG - Accessory Drive Gearbox

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APU Overhaul Capability [UCAP.DBF]

OPERATOR	-	Facility Name
MNFCTR	-	Airframe Manufacturer
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
APUMKR	-	APU Manufacturer
APU	-	APU Type
APUOVHL	-	In-House Capability for APU Overhaul
APUHSI	-	In-House Capability for APU Hot Section Inspection
APUOVHLTP	-	Third-Party Service offered for APU Overhaul
APUHSITP	-	Third-Party Service offered for APU Hot Section Inspections
APUOVHLCO	-	Whether APU Overhaul is Contracted Out
APUHSICO	-	Whether APU Hot Section Inspection is Contracted Out
APUCON	-	APU Overhaul Contractor
APUHSICON	-	APU Hot Section Inspection Contractor
UREMARKS	-	Remarks - Limitations/Special Capabilities etc
UCONTACT	-	APU Overhaul Contact Name
UCONTACTT	-	APU Overhaul Contact Title
UCONTACTP	-	APU Overhaul Contact Telephone Number
UCONTACTF	-	APU Overhaul Contact Fax Number

APU Component Overhaul Capability [UCOMCAP.DBF]

OPERATOR	-	Facility Name
MNFCTR	-	Airframe Manufacturer
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
APUMKR	-	APU Manufacturer
APU	-	APU Type
UCOM1	-	In-House Capability for LRU Overhaul
UCOM2	-	In-House Capability for ADG* Overhaul
UCOM3	-	In-House Capability for Electrical System Overhaul
UCOM4	-	In-House Capability for Fuel System Overhaul
UCOM5	-	In-House Capability for Lubrication System Overhaul
UCOM1TP	-	Third-Party Service offered for LRU Overhaul
UCOM2TP	-	Third-Party Service offered for ADG* Overhaul
UCOM3TP	-	Third-Party Service offered for Electrical System Overhaul
UCOM4TP	-	Third-Party Service offered for Fuel System Overhaul
UCOM5TP	-	Third-Party Service offered for Lubrication System Overhaul
UCOM1CO	-	Whether LRU Overhaul is Contracted Out
UCOM2CO	-	Whether ADG* Overhaul is Contracted Out
UCOM3CO	-	Whether Electrical Components are Contracted Out
UCOM4CO	-	Whether Fuel System Components are Contracted Out
UCOM5CO	-	Whether Lube System Components are Contracted Out
UCOM1CON	-	LRU Overhaul Contractor
UCOM2CON	-	ADG* Overhaul Contractor
UCOM3CON	-	Electrical System Overhaul Contractor
UCOM4CON	-	Fuel System Overhaul Contractor
UCOM5CON	-	Lubrication System Overhaul Contractor
UCOMREM	-	Remarks - Limitations/Special Capabilities etc
UCOMCON	-	APU Component Overhaul Contact Name
UCOMCONT	-	APU Component Overhaul Contact Title
UCOMCONP	-	APU Component Overhaul Contact Telephone Number
UCOMCONF	-	APU Component Overhaul Contact Fax Number

* ADG - Accessory Drive Gearbox

Maintenance Inspection Intervals [CHEKNEW.DBF]

DATE	-	Date Operator supplied Inspection Intervals
OPERATOR	-	Operator Name
TYPE	-	Aircraft Type
MODEL	-	Aircraft Model
AHOURS	-	A Check Interval in Flying Hours (Numeric)
ACYCLES	-	A Check Interval in Cycles (Numeric)
ADAYS	-	A Check Interval in Days (Numeric)
BHOURS	-	B Check Interval in Flying Hours (Numeric)
BCYCLES	-	B Check Interval in Cycles (Numeric)
BDAYS	-	B Check Interval in Days (Numeric)
BMONTHS	-	B Check Interval in Months (Numeric)
CHOURS	-	C Check Interval in Flying Hours (Numeric)
CCYCLES	-	C Check Interval in Cycles (Numeric)
CMONTHS	-	C Check Interval in Months (Numeric)
DHOURS	-	D Check Interval in Flying Hours (Numeric)
DCYCLES	-	D Check Interval in Cycles (Numeric)
DMONTHS	-	D Check Interval in Months (Numeric)
COUNTRY	-	Country of Operator
REGION	-	World Sub-Region of Operator
MAINREG	-	Main World Region of Operator
REMARKS	-	Remarks - Intermediate Checks etc
ETIME	-	Engine & HSI Overhaul Lives

Seating Configuration File [SEATCON.DBF]

SERIAL	-	Aircraft Serial Number
TOTAL	-	Total Seats
S1	-	Number of First-Class Seats
C1	-	First-Class Seat Class
P1	-	First-Class Seat Pitch in Inches
W1	-	First-Class Seat Width in Inches
S2	-	Number of Business Class Seats
C2	-	Business Class Seat Class
P2	-	Business Class Seat Pitch in Inches
W2	-	Business Class Seat Width in Inches
S3	-	Number of Economy Class Seats
C3	-	Economy Class Seat Class
P3	-	Economy Class Seat Pitch in Inches
W3	-	Economy Class Seat Width in Inches

Appendix F - ACAS Main Data Files - Descriptions by Data Field Type

Current Aircraft Data File [ACDATA.DBF]

Manufacturer Fields	Field Name
Aircraft Manufacturer	ACDATA.MNFCTR
Engine Manufacturer	ACDATA.EMKR

Aircraft Designation Fields	Field Name
Aircraft Type	ACDATA.TYPE
Aircraft Model Series	ACDATA.MODEL
Engine Type	ACDATA.ENGINE
Number of Engines	ACDATA.ENO
Aircraft Line Number	ACDATA.FSLGE
Aircraft Serial Number	ACDATA.SERIAL
Aircraft Registration	ACDATA.ACREG
Aircraft Maximum Take-off Weight (lbs x 1000)	ACDATA.MTOW
Defines aircraft as Jet or Turboprop	ACDATA.T
FAR Part 36 Noise Stage Compliance	ACDATA.NOISE
Aircraft Operational Role	ACDATA.ROLE
Aircraft Seat Category	ACDATA.SEATS

Aircraft Operator Fields	Field Name
Operator Name	ACDATA.OPERATOR
ICAO 3 letter Operator Code	ACDATA.OPID
Operator Country of Origin	ACDATA.COUNTRY
Operator World Sub-Region of Origin	ACDATA.REGION
Operator Major World Region of Origin	ACDATA.MAINREG
Denotes whether A/C new to Operator	ACDATA.CHANGE

Aircraft Ownership Fields	Field Name
Current Ownership Status Code	ACDATA.STATUS
Legal Owner ID Code	ACDATA.ONID

Date & Age Fields	Field Name
Aircraft Hours & Cycles Data Reference Date	ACDATA.DATE
Original Delivery Date (first operator)	ACDATA.SERVICE
Current Operator Delivery Date	ACDATA.OPSERV
Aircraft Service Entry Year	ACDATA.SERVYY
Aircraft Service Entry Month	ACDATA.SERVMM
Aircraft Service Entry Day	ACDATA.SERVDD
Aircraft Age (to Latest Month)	ACDATA.AGE

Current Aircraft Data File [ACDATA.DBF] (Continued)

Aircraft Flying Hours Fields	Field Name
Cumulative Fuselage Flying Hours (since original delivery date)	ACDATA.FHSCUM
Cumulative Hours Current Operator	ACDATA.OPCUMH
Flying Hours (last twelve months)	ACDATA.ANNFHSCUR
Flying Hours (last 12 months current operator)	ACDATA.OPH12M
Annual Average Flying Hours (since original delivery date)	ACDATA.ANNFHSCUM
Average Daily Utilisation (hours) (last twelve months)	ACDATA.UTIL
Average Daily Utilisation (hours) (since original delivery date)	ACDATA.UTILCUM
Average Cycle or Flight Time (last twelve months)	ACDATA.CYCLECUR
Average Cycle or Flight Time (since original delivery date)	ACDATA.CYCLECUM
Month Flying Hours	ACDATA.MTHFH
Last 3 Month's Flying Hours	ACDATA.L3MH

Aircraft Landings Fields	Field Name
Cumulative Fuselage Landings (since original delivery date)	ACDATA.LDGSCUM
Cumulative Landings Current Operator	ACDATA.OPCUMC
Landings (last twelve months)	ACDATA.ANNLDGSCUR
Landings (last 12 months current operator)	ACDATA.OPC12M
Annual Average Landings (since original delivery date)	ACDATA.ANNLDGSCUM
Month Landings	ACDATA.MTHLD

The above data fields are for aircraft currently in service - (Flying hours are wheels off to wheels on)

Historical Aircraft Data [DEASE.DBF]

Manufacturer Fields	Field Name
Aircraft Manufacturer	DEASE.MNFCTR
Engine Manufacturer	DEASE.EMKR

Aircraft Designation Fields	Field Name
Aircraft Type	DEASE.TYPE
Aircraft Model Series	DEASE.MODEL
Engine Type	DEASE.ENGINE
Aircraft Line Number	DEASE.FSLGE
Aircraft Serial Number	DEASE.SERIAL
Aircraft Registration	DEASE.ACREG
Aircraft Maximum Take-off Weight (lbs x 1000)	DEASE.MTOW
FAR Part 36 Noise Stage Compliance	DEASE.NOISE
Aircraft Operational Role	DEASE.ROLE
Defines aircraft as Jet or Turboprop	DEASE.T

Aircraft Operator Fields	Field Name
Operator Name	DEASE.OPERATOR
ICAO 3 letter Operator Code	DEASE.OPID
Operator Country of Origin	DEASE.COUNTRY
Operator World Sub-Region of Origin	DEASE.REGION
Operator Major World Region of Origin	DEASE.MAINREG

Date Fields	Field Name
In Service From Date for Each Operator	DEASE.FROM
In Service To Date for Each Operator	DEASE.TO

Historical Transaction Fields	Field Name
Transaction Number	DEASE.TNO
Transaction Type Code	DEASE.STATUS
Remarks e.g. Unrepairable or Retired	DEASE.REMARKS

Aircraft Flying Hours Fields	Field Name
Flying Hours for Each Operator	DEASE.FHS

Aircraft Landings Fields	Field Name
Landings for Each Operator	DEASE.LDGS

(Flying hours are wheels off to wheels on)

DEASE presents the history of each aircraft with individual operator flying hours and landings for every aircraft manufactured for those types contained in the Database including aircraft written off or retired.

Airline Head Office Addresses [ADDRESS.DBF]

Date Fields	**Field Name**
Date on which the Operator supplied Address Details	ADDRESS.DATE

Operator Fields	**Field Name**
Operator Name	ADDRESS.OPERATOR
IATA Two-Letter Code	ADDRESS.CODE
Operator Country of Origin	ADDRESS.COUNTRY
Operator World Sub-Region of Origin	ADDRESS.REGION
Operator Address Line 1	ADDRESS.ADDRESS1
Operator Address Line 2	ADDRESS.ADDRESS2
Operator Address Line 3	ADDRESS.ADDRESS3

Operator Personnel Contact Fields	**Field Name**
Name of President/CEO	ADDRESS.NAME1
Name of VP Operations	ADDRESS.NAME2
Name of VP Route Planning	ADDRESS.NAME3
Name of VP Fleet Planning	ADDRESS.NAME4
Name of Finance Director	ADDRESS.NAME5
Name of Head of Reservations	ADDRESS.NAME6
Title of Name 1	ADDRESS.TITLE1
Title of Name 2	ADDRESS.TITLE2
Title of Name 3	ADDRESS.TITLE3
Title of Name 4	ADDRESS.TITLE4
Title of Name 5	ADDRESS.TITLE5
Title of Name 6	ADDRESS.TITLE6
Notes Line 1	ADDRESS.NOTES1
Notes Line 2	ADDRESS.NOTES2

Operator Contact Number Fields	**Field Name**
Main Telephone Number	ADDRESS.MPHONE
Alternate Telephone Number	ADDRESS.PHONE
Main Fax Number	ADDRESS.MFAX
Alternate Fax Number	ADDRESS.FAX
SITA	ADDRESS.SITA
Email	ADDRESS.EMAIL

Maintenance Facility Addresses (Airlines & Independents) [MADDRESS.DBF]

Date Fields	Field Name
Date on which the Operator/Facility supplied Address Details	MADDRESS.CHANGEDATE

Operator/Facility Fields	Field Name
Operator/Facility Name	MADDRESS.OPERATOR
IATA Two-Letter Code	MADDRESS.CODE
Operator Country of Origin	MADDRESS.COUNTRY
Operator/Facility World Sub-Region of Origin	MADDRESS.REGION
Operator/Facility Address Line 1	MADDRESS.ADDRESS1
Operator/Facility Address Line 2	MADDRESS.ADDRESS2
Operator/Facility Address Line 3	MADDRESS.ADDRESS3

Operator/Facility Personnel Contact Fields	Field Name
Name of Technical Director/VP Maintenance	MADDRESS.NAME1
Name of Engineering Manager	MADDRESS.NAME2
Name of Maintenance Planning Manager	MADDRESS.NAME3
Name of Engineering Purchasing Manager	MADDRESS.NAME4
Name of Maintenance Sales & Marketing Manager	MADDRESS.NAME5
Name of Other Useful Contact	MADDRESS.NAME6
Title of Name 1	MADDRESS.TITLE1
Title of Name 2	MADDRESS.TITLE2
Title of Name 3	MADDRESS.TITLE3
Title of Name 4	MADDRESS.TITLE4
Title of Name 5	MADDRESS.TITLE5
Title of Name 6	MADDRESS.TITLE6
Notes Line 1	MADDRESS.NOTES1
Notes Line 2	MADDRESS.NOTES2

Operator/Facility Contact Number Fields	Field Name
Main Telephone Number	MADDRESS.MPHONE
Alternate Telephone Number	MADDRESS.PHONE
Main Fax Number	MADDRESS.MFAX
Alternate Fax Number	MADDRESS.FAX
SITA	MADDRESS.SITA
Email	MADDRESS.EMAIL

Miscellaneous Aircraft Data   [ACBITS.DBF]

Aircraft Serial Number	ACBITS.SERIAL
Aircraft Type	ACBITS.TYPE
Boeing Customer-Series	ACBITS.BSERIES
Boeing Block Number	ACBITS.BLOCK
APU Manufacturer	ACBITS.APUMKR
APU Type	ACBITS.APU
Propeller Manufacturer	ACBITS.PMKR
Propeller Type	ACBITS.PROPELLER

Aircraft Orders [ORDERS.DBF]

Manufacturer Fields	Field Name
Aircraft Manufacturer	ORDERS.MNFCTR
Engine Manufacturer	ORDERS.EMKR

Aircraft Designation Fields	Field Name
Aircraft Type	ORDERS.TYPE
Aircraft Model Series	ORDERS.MODEL
Engine Type	ORDERS.ENGINE
Number of Engines	ORDERS.ENO
FAR Part 36 Noise Stage Compliance	ORDERS.NOISE
Aircraft Operational Role	ORDERS.ROLE
Aircraft Seat Category	ORDERS.SEATCAT
Aircraft Range (S = Short/Medium, L = Long)	ORDERS.RANGE
Whether Aircraft is in Current Production (C = Yes)	ORDERS.CURAFM
Whether Engine Type is in Current Production	ORDERS.CURENG
Engine Size (L = Large > 40,000lbs thrust, S = Small/Medium	ORDERS.ENGSIZE

Aircraft Customer Fields	Field Name
Customer	ORDERS.CUSTOMER
Operator Name	ORDERS.OPERATOR
ICAO 3 letter Operator Code	ORDERS.OPID
Operator Country of Origin	ORDERS.COUNTRY
Operator World Sub-Region of Origin	ORDERS.REGION
Operator Major World Region of Origin	ORDERS.MAINREG

Date Fields	Field Name
Orders Data Reference Date	ORDERS.DATE
Airframe Order Contract Date	ORDERS.ACONDATE
Engine Order Contract Date	ORDERS.ECONDATE
First Aircraft Delivery Date	ORDERS.FIRSTDLVRY

Aircraft Orders Fields	Field Name
Total Number of Aircraft Ordered	ORDERS.TOTAL
Number of Aircraft Ordered which have been delivered to date	ORDERS.DELIVERED
Order Backlog	ORDERS.OUTSTNDG
Number of Aircraft Cancelled	ORDERS.CANX
Delivery Schedule Estimated (if ORDERS.E = 'Y')	ORDERS.E
Delivery Month 1 to 24	ORDERS.OM1 to OM24
Delivery Year 1 to 10	ORDERS.DYEAR1 to DYEAR10

Aircraft Options Fields	Field Name
Number of Aircraft on Option	ORDERS.OPTION
Options Delivery Year 1 to 10	ORDERS.ODYEAR1 to ODYEAR10

Latest Month Aircraft Orders [NEWORDER.DBF]

	Field Name
Data Reference Month	NEWORDER.MTH
Airframe Manufacturer	NEWORDER.MNFCTR
Customer	NEWORDER.CUSTOMER
Aircraft Model	NEWORDER.MODEL
Engine Type	NEWORDER.ENGINE
First Aircraft Delivery Date	NEWORDER.FIRSTDLVRY
Number of Aircraft Ordered	NEWORDER.NO

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Latest Month Deliveries [NEWDLV.DBF]

Field Name

Airframe Manufacturer	NEWDLV.MNFCTR
Aircraft Model	NEWDLV.MODEL
Aircraft Operator	NEWDLV.OPERATOR
Aircraft Registration	NEWDLV.ACREG
Aircraft Service Entry Year	NEWDLV.SERVYY
Aircraft Service Entry Month	NEWDLV.SERVMM
Aircraft Service Entry Day	NEWDLV.SERVDD
Aircraft Age (to Latest Month)	NEWDLV.AGE

Legal Owner File [ONREF.DBF]

Field Name

Legal Owner ID Code	ONREF.ONID
Legal Owner Name	ONREF.OWNER
Legal Owner Country of Origin	ONREF.COUNTRY
Legal Owner Address Line 1	ONREF.ADDRESS1
Legal Owner Address Line 2	ONREF.ADDRESS2
Legal Owner Address Line 3	ONREF.ADDRESS3
Legal Owner City	ONREF.CITY
Legal Owner State	ONREF.STATE
Legal Owner 2 Letter State Code	ONREF.STATEID
Legal Owner Zip/Postcode	ONREF.ZIP
Legal Owner World Region	ONREF.REGION
Legal Owner Contact Name	ONREF.NAME1
Legal Owner Contact Title	ONREF.TITLE1
Legal Owner Telephone Number	ONREF.PHONE
Legal Owner Email Address	ONREF.EMAIL
Legal Owner Fax Number	ONREF.FAX
Legal Owner SITA/ARINC Address	ONREF.SITA

Operator Reference File [OPREF.DBF]

Field Name

Operator Name	OPREF.OPERATOR
IATA Two-Letter Operator Code	OPREF.OPID
Operator Country of Origin	OPREF.COUNTRY
Operator World Sub-Region of Origin	OPREF.REGION

Fleet Performance [FLEET.DBF]

Field Name

Operator Name	FLEET.OPERATOR
Operator Country of Origin	FLEET.COUNTRY
Operator World Sub-Region of Origin	FLEET.REGION
Operator Major World Region of Origin	FLEET.MAINREG
Aircraft Type	FLEET.TYPE
Aircraft Model	FLEET.MODEL
Engine Manufacturer	FLEET.EMKR
Engine Type	FLEET.ENGINE
Aircraft Serial Number	FLEET.SERIAL
Month 1 to Month 24 Flying Hours	FLEET.H1 to FLEET.H24
Month 1 to Month 24 Landings	FLEET.C1 to FLEET.C24

[FLEETREF.DBF] contains reference date for latest month in FLEET.DBF

Month 24	FLEETREF.TIMREF
Year of Month 24	FLEETREF.YEAR

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TIME-SERIES Program Data Files

Flying Hours Data File since January 1990 to date

TIMEHRS.DBF

	Field Name
Operator Name	TIMEHRS.OPERATOR
Operator Country of Origin	TIMEHRS.COUNTRY
Operator World Sub-Region of Origin	TIMEHRS.REGION
Operator Major World Region of Origin	TIMEHRS.MAINREG
Aircraft Manufacturer	TIMEHRS.MNFCTR
Aircraft Type	TIMEHRS.TYPE
Aircraft Model	TIMEHRS.MODEL
Engine Manufacturer	TIMEHRS.EMKR
Engine Type	TIMEHRS.ENGINE
Aircraft Serial Number	TIMEHRS.SERIAL
Aircraft Operational Role	TIMEHRS.ROLE
Transaction Number	TIMEHRS.TNO
Month 1 to Month 132 Flying Hours	TIMEHRS.H1 to TIMEHRS.H132

NOTE: H1 = January 1990, H132 = December 2000

Landings Data File since January 1990 to date

TIMECYCL.DBF

	Field Name
Operator Name	TIMECYCL.OPERATOR
Operator Country of Origin	TIMECYCL.COUNTRY
Operator World Sub-Region of Origin	TIMECYCL.REGION
Operator Major World Region of Origin	TIMECYCL.MAINREG
Aircraft Manufacturer	TIMECYCL.MNFCTR
Aircraft Type	TIMECYCL.TYPE
Aircraft Model	TIMECYCL.MODEL
Engine Manufacturer	TIMECYCL.EMKR
Engine Type	TIMECYCL.ENGINE
Aircraft Serial Number	TIMECYCL.SERIAL
Aircraft Operational Role	TIMECYCL.ROLE
Transaction Number	TIMECYCL.TNO
Month 1 to Month 132 Landings	TIMECYCL.C1 to TIMECYCL.C132

NOTE: C1 = January 1990, C132 = December 2000

Overhaul Facility Details [MCAP.DBF]

	Field Name
Date on which Facility supplied Overhaul Capability Details	MCAP.DATE
Facility Name	MCAP.OPERATOR
Contact Name of Technical Director/VP Maintenance	MCAP.VP
Title of Contact Name	MCAP.TITLE
Contact Name Telephone Number	MCAP.VPP
Contact Name Fax Number	MCAP.VPF
SITA Number	MCAP.SITA
Approval Authority	MCAP.RA
Approvals	MCAP.RAPPS
Number of Narrow-Body Hangar Bays	MCAP.HN
Number of Wide-Body Hangar Bays	MCAP.HW
Shift Pattern	MCAP.SHIFT
Manhour Capacity	MCAP.MANCAP
Country in which Facility is Located	MCAP.COUNTRY
World Sub-Region in which Facility is Located	MCAP.REGION
Main World Region of Operator	MCAP.MAINREG

Engine/APU Shop Visit Rates [ENGCHEK.DBF]

Date Fields	Field Name
Date on which the Operator supplied data	ENGCHEK.DATE

Operator Fields	Field Name
Operator Name	ENGCHEK.OPERATOR
Operator Country of Origin	ENGCHEK.COUNTRY
Operator World Sub-Region of Origin	ENGCHEK.REGION
Operator Major World Region of Origin	ENGCHEK.MAINREG

Aircraft Coverage Fields	Field Name
Aircraft Type	ENGCHEK.TYPE
Aircraft Model	ENGCHEK.MODEL
Engine Manufacturer	ENGCHEK.EMKR
Engine Type	ENGCHEK.ENGINE
APU Manufacturer	ENGCHEK.APUMKR
APU Type	ENGCHEK.APU

On-Wing Life Fields	Field Name
Engine Hours	ENGCHEK.EHRS
Engine Cycles	ENGCHEK.ECYCS
APU Airframe Hours	ENGCHEK.APUAFHRS
APU Hours	ENGCHEK.APUHRS
APU Cycles	ENGCHEK.APUCYCS

Airframe Overhaul Capability [ACAP.DBF]

Overhaul Facility Fields	**Field Name**
Facility Name	ACAP.OPERATOR
Number of D Checks performed by Facility	ACAP.DNO
Airframe Overhaul Contact Name	ACAP.ACONTACT
Airframe Overhaul Contact Title	ACAP.ACONTITLE
Airframe Overhaul Contact Telephone Number	ACAP.ACONTACTP
Airframe Overhaul Contact Fax Number	ACAP.ACONTACTF

Aircraft Coverage Fields	**Field Name**
Airframe Manufacturer	ACAP.MNFCTR
Aircraft Type	ACAP.TYPE
Aircraft Model	ACAP.MODEL

In-House Capability Fields	**Field Name**
In-House Capability for A Check	ACAP.A
In-House Capability for B Check	ACAP.B
In-House Capability for C Check	ACAP.C
In-House Capability for D Check	ACAP.D
In-House Capability for Strip/Paint	ACAP.SP
In-House Capability for Composites	ACAP.AC

Third-Party Service Fields	**Field Name**
Third-Party Service offered for A Check	ACAP.ATP
Third-Party Service offered for B Check	ACAP.BTP
Third-Party Service offered for C Check	ACAP.CTP
Third-Party Service offered for D Check	ACAP.DTP
Third-Party Service offered for Strip/Paint	ACAP.SPTP
Third-Party Service offered for Composites	ACAP.ACTP

Contracted-Out Fields	**Field Name**
Whether A Check is Contracted Out	ACAP.ACO
Whether B Check is Contracted Out	ACAP.BCO
Whether C Check is Contracted Out	ACAP.CCO
Whether D Check is Contracted Out	ACAP.DCO
Whether Strip/Paint is Contracted Out	ACAP.SPCO
Whether Composites Repairs are Contracted Out	ACAP.ACCO
A Check Contractor	ACAP.ACON
B Check Contractor	ACAP.BCON
C Check Contractor	ACAP.CCON
D Check Contractor	ACAP.DCON
Strip/Paint Contractor	ACAP.SPCON
Composites Repair Contractor	ACAP.ACCON

Remarks - Limitations/Special Capabilities etc	ACAP.AREMARKS

Airframe Component Overhaul Capability [ACOMCAP.DBF]

Overhaul Facility Fields	**Field Name**
Facility Name	ACOMCAP.OPERATOR
Airframe Component Overhaul Contact Name	ACOMCAP.ACOMCON
Airframe Component Overhaul Contact Title	ACOMCAP.ACOMCONT
Airframe Component Overhaul Contact Telephone Number	ACOMCAP.ACOMCONP
Airframe Component Overhaul Contact Fax Number	ACOMCAP.ACOMCONF

Aircraft Coverage Fields	**Field Name**
Airframe Manufacturer	ACOMCAP.MNFCTR
Aircraft Type	ACOMCAP.TYPE
Aircraft Model	ACOMCAP.MODEL

In-House Capability Fields	**Field Name**
In-House Capability for Analogue Avionics Overhaul	ACOMCAP.ACOM1
In-House Capability for Digital Avionics Overhaul	ACOMCAP.ACOM2
In-House Capability for Electrical Component Overhaul	ACOMCAP.ACOM3
In-House Capability for Hydraulic Component Overhaul	ACOMCAP.ACOM4
In-House Capability for Pneumatic Component Overhaul	ACOMCAP.ACOM5
In-House Capability for Propeller Component Overhaul	ACOMCAP.ACOM6
In-House Capability for Landing Gear Component Overhaul	ACOMCAP.ACOM7
In-House Capability for Wheels/Tyres/Brakes Overhaul	ACOMCAP.ACOM8
In-House Capability for Transparencies/Glass Overhaul	ACOMCAP.ACOM9
In-House Capability for Interiors/Furnishing Overhaul	ACOMCAP.ACOM10

Third-Party Service Fields	**Field Name**
Third-Party Service offered for Analogue Avionics Overhaul	ACOMCAP.ACOM1TP
Third-Party Service offered for Digital Avionics Overhaul	ACOMCAP.ACOM2TP
Third-Party Service offered for Electrical Component Overhaul	ACOMCAP.ACOM3TP
Third-Party Service offered for Hydraulic Component Overhaul	ACOMCAP.ACOM4TP
Third-Party Service offered for Pneumatic Component Overhaul	ACOMCAP.ACOM5TP
Third-Party Service offered for Propeller Overhaul	ACOMCAP.ACOM6TP
Third-Party Service offered for Landing Gear Overhaul	ACOMCAP.ACOM7TP
Third-Party Service offered for Wheels/Tyres/Brakes Overhaul	ACOMCAP.ACOM8TP
Third-Party Service offered for Transparencies/Glass Overhaul	ACOMCAP.ACOM9TP
Third-Party Service offered for Interiors/Furnishing Overhaul	ACOMCAP.ACOM10TP

Contracted-Out Fields	**Field Name**
Whether Analogue Avionics Overhaul is Contracted Out	ACOMCAP.ACOM1CO
Whether Digital Avionics Overhaul is Contracted Out	ACOMCAP.ACOM2CO
Whether Electrical Component Overhaul is Contracted Out	ACOMCAP.ACOM3CO
Whether Hydraulic Component Overhaul is Contracted Out	ACOMCAP.ACOM4CO
Whether Pneumatic Component Overhaul is Contracted Out	ACOMCAP.ACOM5CO
Whether Propeller Overhaul Overhaul is Contracted Out	ACOMCAP.ACOM6CO
Whether Landing Gear Overhaul is Contracted Out	ACOMCAP.ACOM7CO
Whether Wheels/Tyres/Brakes Overhaul is Contracted Out	ACOMCAP.ACOM8CO
Whether Transparencies/Glass Overhaul is Contracted Out	ACOMCAP.ACOM9CO
Whether Interiors/Furnishing Overhaul is Contracted Out	ACOMCAP.ACOM10CO
Analogue Avionics Overhaul Contractor	ACOMCAP.ACOM1CON
Digital Avionics Overhaul Contractor	ACOMCAP.ACOM2CON
Electrical Components Overhaul Contractor	ACOMCAP.ACOM3CON

Airframe Component Overhaul Capability [ACOMCAP.DBF] (Continued)

Hydraulic Components Overhaul Contractor   ACOMCAP.ACOM4CON
Pneumatic Components Overhaul Contractor   ACOMCAP.ACOM5CON
Propeller Overhaul Contractor   ACOMCAP.ACOM6CON
Landing Gear Overhaul Contractor   ACOMCAP.ACOM7CON
Wheels/Tyres/Brakes Overhaul Contractor   ACOMCAP.ACOM8CON
Transparencies/Glass Overhaul Contractor   ACOMCAP.ACOM9CON
Interiors/Furnishing Overhaul Contractor   ACOMCAP.ACOM10CON

Remarks - Limitations/Special Capabilities etc   ACOMCAP.ACOMREM

Engine Overhaul Capability [ECAP.DBF]

Overhaul Facility Fields   **Field Name**

Facility Name   ECAP.OPERATOR
Engine Overhaul Contact Name   ECAP.ECONTACT
Engine Overhaul Contact Title   ECAP.ECONTACTT
Engine Overhaul Contact Telephone Number   ECAP.ECONTACTP
Engine Overhaul Contact Fax Number   ECAP.ECONTACTF

Aircraft/Engine Coverage Fields   **Field Name**

Airframe Manufacturer   ECAP.MNFCTR
Aircraft Type   ECAP.TYPE
Aircraft Model   ECAP.MODEL
Engine Manufacturer   ECAP.EMKR
Engine Type   ECAP.ENGINE

In-House Capability Fields   **Field Name**

In-House Capability for Engine Overhaul   ECAP.EOVHL
In-House Capability for Hot Section Inspection   ECAP.HSI

Third-Party Service Fields   **Field Name**

Third-Party Service offered for Engine Overhaul   ECAP.EOVHLTP
Third-Party Service offered for Hot Section Inspections   ECAP.HSITP

Contracted-Out Fields   **Field Name**

Whether Engine Overhaul is Contracted Out   ECAP.EOVHLCO
Whether Hot Section Inspection is Contracted Out   ECAP.HSICO

Contracted-Out Fields   **Field Name**

Engine Overhaul Contractor   ECAP.ECON
Hot Section Inspection Contractor   ECAP.HSICON

Remarks - Limitations/Special Capabilities etc   ECAP.EREMARKS

Engine Component Overhaul Capability [ECOMCAP.DBF]

Overhaul Facility Fields	Field Name
Facility Name	ECOMCAP.OPERATOR
Engine Component Overhaul Contact Name	ECOMCAP.ECOMCON
Engine Component Overhaul Contact Title	ECOMCAP.ECOMCONT
Engine Component Overhaul Contact Telephone Number	ECOMCAP.ECOMCONP
Engine Component Overhaul Contact Fax Number	ECOMCAP.ECOMCONF

Aircraft/Engine Coverage Fields	Field Name
Airframe Manufacturer	ECOMCAP.MNFCTR
Aircraft Type	ECOMCAP.TYPE
Aircraft Model	ECOMCAP.MODEL
Engine Manufacturer	ECOMCAP.EMKR
Engine Type	ECOMCAP.ENGINE

In-House Capability Fields	Field Name
In-House Capability for LRU Overhaul	ECOMCAP.ECOM1
In-House Capability for ADG* Overhaul	ECOMCAP.ECOM2
In-House Capability for Electrical System Overhaul	ECOMCAP.ECOM3
In-House Capability for Fuel System Overhaul	ECOMCAP.ECOM4
In-House Capability for Lubrication System Overhaul	ECOMCAP.ECOM5
In-House Capability for Thrust Reverser Overhaul	ECOMCAP.ECOM6

Third-Party Service Fields	Field Name
Third-Party Service offered for LRU Overhaul	ECOMCAP.ECOM1TP
Third-Party Service offered for ADG* Overhaul	ECOMCAP.ECOM2TP
Third-Party Service offered for Electrical System Overhaul	ECOMCAP.ECOM3TP
Third-Party Service offered for Fuel System Overhaul	ECOMCAP.ECOM4TP
Third-Party Service offered for Lubrication System Overhaul	ECOMCAP.ECOM5TP
Third-Party Service offered for Thrust Reverser Overhaul	ECOMCAP.ECOM6TP

Contracted-Out Fields	Field Name
Whether LRU Overhaul is Contracted Out	ECOMCAP.ECOM1CO
Whether ADG* Overhaul is Contracted Out	ECOMCAP.ECOM2CO
Whether Electrical Components are Contracted Out	ECOMCAP.ECOM3CO
Whether Fuel System Components are Contracted Out	ECOMCAP.ECOM4CO
Whether Lube System Components are Contracted Out	ECOMCAP.ECOM5CO
Whether Thrust Reverser Components are Contracted Out	ECOMCAP.ECOM6CO
LRU Overhaul Contractor	ECOMCAP.ECOM1CON
ADG* Overhaul Contractor	ECOMCAP.ECOM2CON
Electrical System Overhaul Contractor	ECOMCAP.ECOM3CON
Fuel System Overhaul Contractor	ECOMCAP.ECOM4CON
Lubrication System Overhaul Contractor	ECOMCAP.ECOM5CON
Thrust Reverser Overhaul Contractor	ECOMCAP.ECOM6CON

Remarks - Limitations/Special Capabilities etc	ECOMCAP.ECOMREM

- ADG - Accessory Drive Gearbox

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APU Overhaul Capability [UCAP.DBF]

Overhaul Facility Fields   **Field Name**

Facility Name   UCAP.OPERATOR
APU Overhaul Contact Name   UCAP.UCONTACT
APU Overhaul Contact Title   UCAP.UCONTACTT
APU Overhaul Contact Telephone Number   UCAP.UCONTACTP
APU Overhaul Contact Fax Number   UCAP.UCONTACTF

Aircraft/APU Coverage Fields   **Field Name**

Airframe Manufacturer   UCAP.MNFCTR
Aircraft Type   UCAP.TYPE
Aircraft Model   UCAP.MODEL
APU Manufacturer   UCAP.APUMKR
APU Type   UCAP.APU

In-House Capability Fields   **Field Name**

In-House Capability for APU Overhaul   UCAP.APUOVHL
In-House Capability for APU Hot Section Inspection   UCAP.APUHSI

Third-Party Service Fields   **Field Name**

Third-Party Service offered for APU Overhaul   UCAP.APUOVHLTP
Third-Party Service offered for APU Hot Section Inspections   UCAP.APUHSITP

Contracted-Out Fields   **Field Name**

Whether APU Overhaul is Contracted Out   UCAP.APUOVHLCO
Whether APU Hot Section Inspection is Contracted Out   UCAP.APUHSICO

Contracted-Out Fields   **Field Name**

APU Overhaul Contractor   UCAP.APUCON
APU Hot Section Inspection Contractor   UCAP.APUHSICON

Remarks - Limitations/Special Capabilities etc   UCAP.UREMARKS

APU Component Overhaul Capability [UCOMCAP.DBF]

Overhaul Facility Fields   **Field Name**

Facility Name   UCOMCAP.OPERATOR
APU Component Overhaul Contact Name   UCOMCAP.UCOMCON
APU Component Overhaul Contact Title   UCOMCAP.UCOMCONT
APU Component Overhaul Contact Telephone Number   UCOMCAP.UCOMCONP
APU Component Overhaul Contact Fax Number   UCOMCAP.UCOMCONF

Aircraft/APU Coverage Fields   **Field Name**

Airframe Manufacturer   UCOMCAP.MNFCTR
Aircraft Type   UCOMCAP.TYPE
Aircraft Model   UCOMCAP.MODEL
APU Manufacturer   UCOMCAP.APUMKR
APU Type   UCOMCAP.APU

In-House Capability Fields   **Field Name**

In-House Capability for LRU Overhaul   UCOMCAP.UCOM1
In-House Capability for ADG* Overhaul   UCOMCAP.UCOM2
In-House Capability for Electrical System Overhaul   UCOMCAP.UCOM3
In-House Capability for Fuel System Overhaul   UCOMCAP.UCOM4
In-House Capability for Lubrication System Overhaul   UCOMCAP.UCOM5

Third-Party Service Fields   **Field Name**

Third-Party Service offered for LRU Overhaul   UCOMCAP.UCOM1TP
Third-Party Service offered for ADG* Overhaul   UCOMCAP.UCOM2TP
Third-Party Service offered for Electrical System Overhaul   UCOMCAP.UCOM3TP
Third-Party Service offered for Fuel System Overhaul   UCOMCAP.UCOM4TP
Third-Party Service offered for Lubrication System Overhaul   UCOMCAP.UCOM5TP

Contracted-Out Fields   **Field Name**

Whether LRU Overhaul is Contracted Out   UCOMCAP.UCOM1CO
Whether ADG* Overhaul is Contracted Out   UCOMCAP.UCOM2CO
Whether Electrical Components are Contracted Out   UCOMCAP.UCOM3CO
Whether Fuel System Components are Contracted Out   UCOMCAP.UCOM4CO
Whether Lube System Components are Contracted Out   UCOMCAP.UCOM5CO
LRU Overhaul Contractor   UCOMCAP.UCOM1CON
ADG* Overhaul Contractor   UCOMCAP.UCOM2CON
Electrical System Overhaul Contractor   UCOMCAP.UCOM3CON
Fuel System Overhaul Contractor   UCOMCAP.UCOM4CON
Lubrication System Overhaul Contractor   UCOMCAP.UCOM5CON

Remarks - Limitations/Special Capabilities etc   UCOMCAP.UCOMREM

* ADG - Accessory Drive Gearbox

Maintenance Inspection Intervals [CHEKNEW.DBF]

Date Fields	**Field Name**
Date on which the Operator supplied Inspection Intervals	CHEKNEW. DATE

Operator Fields	**Field Name**
Operator Name	CHEKNEW.OPERATOR
Operator Country of Origin	CHEKNEW.COUNTRY
Operator/Facility World Sub-Region of Origin	CHEKNEW.REGION
Operator Major World Region of Origin	CHEKNEW.MAINREG

Aircraft Coverage Fields	**Field Name**
Aircraft Type	CHEKNEW.TYPE
Aircraft Model	CHEKNEW.MODEL

Inspection Intervals Fields	**Field Name**
A Check Interval in Flying Hours	CHEKNEW.AHOURS
A Check Interval in Cycles	CHEKNEW.ACYCLES
A Check Interval in Days	CHEKNEW.ADAYS
B Check Interval in Flying Hours	CHEKNEW.BHOURS
B Check Interval in Cycles	CHEKNEW.BCYCLES
B Check Interval in Days	CHEKNEW.BDAYS
B Check Interval in Months	CHEKNEW.BMONTHS
C Check Interval in Flying Hours	CHEKNEW.CHOURS
C Check Interval in Cycles	CHEKNEW.CCYCLES
C Check Interval in Months	CHEKNEW.CMONTHS
D Check Interval in Flying Hours	CHEKNEW.DHOURS
D Check Interval in Cycles	CHEKNEW.DCYCLES
D Check Interval in Months	CHEKNEW.DMONTHS

Remarks Fields	**Field Name**
Remarks - Intermediate Checks etc	CHEKNEW.REMARKS
Engine, APU & HSI Overhaul Lives	CHEKNEW.ETIME

Seating Configuration File [SEATCON.DBF]

	Field Name
Aircraft Serial Number	SEATCON.SERIAL
Total Seats	SEATCON.TOTAL
Number of First-Class Seats	SEATCON.S1
First-Class Seat Class	SEATCON.C1
First-Class Seat Pitch in Inches	SEATCON.P1
First-Class Seat Width in Inches	SEATCON.W1
Number of Business Class Seats	SEATCON.S2
Business Class Seat Class	SEATCON.C2
Business Class Seat Pitch in Inches	SEATCON.P2
Business Class Seat Width in Inches	SEATCON.W2
Number of Economy Class Seats	SEATCON.S3
Economy Class Seat Class	SEATCON.C3
Economy Class Seat Pitch in Inches	SEATCON.P3
Economy Class Seat Width in Inches	SEATCON.W3

Appendix G - ACAS - Problems & Remedies

New Installation

✘ Disk Error: Cannot open file.......

✔ Repeat Installation, but Use Explorer to open the CD Drive and double-click SETUP.EXE

✘ Disk Error: Cannot Write to File.......

✔ Hard Disk is Full….move or delete redundant files and repeat installation

✘ Program Error: Cannot locate Foxpro Support Library

✔ Reinstall

✘ Program Error: Not a Foxpro Executable.......

✔ The ACAS executable file has become corrupted…Run Scandisk and then Defrag….and then repeat the ACAS installation

✘ Program Error: Not a Table/DBF

✔ Networked PC: check that the Default Directory in your ACAS icon properties (right-click on the ACAS icon and then click on Properties) is set to the same Drive Letter as the ACAS directory on the Server. If the ACAS directory on the Network server is mapped to Drive G for example, the Default Directory in Properties should Read "G:\ACAS"

If, for any reason, you cannot use the same drive letter as the ACAS directory on the server, do the following:

- Create a directory called ACASCFG on the C drive on your local PC

- Open the ACAS directory on the Server and copy the File called CONFIG.FPW to the ACASCFG directory

- In Explorer, open the ACASCFG directory, double-click the CONFIG.FPW file and then select NOTEPAD to open it. Then change the drive letter on the last two lines in the file to the drive letter you require and then close the file and save the changes.

-    Then exit Explorer and right-click on the ACAS icon and then on properties:

-    In the statement which contains "ACAS.EXE -T", remove the "-T" and add the following to the end of the statement: -CC:\ACASCFG\CONFIG.FPW

✘ Program Error: G:\ACAS\ACASRITE\LNAME.DBF File does not Exist!

✔ Incorrect Network Drive Mapping - check that the Default Directory in your ACAS icon properties (right-click on the ACAS icon and then click on Properties) is set to the same Drive Letter as the ACAS directory on the Server. If the ACAS directory on the Network server is mapped to Drive G for example, the Default Directory in Properties should Read "G:\ACAS"

If, for any reason, you cannot use the same drive letter as the ACAS directory on the server, do the following:

- Create a directory called ACASCFG on the C drive on your local PC

- Open the ACAS directory on the Server and copy the File called CONFIG.FPW to the ACASCFG directory

- In Explorer, open the ACASCFG directory, double-click the CONFIG.FPW file and then select NOTEPAD to open it. Then change the drive letter on the last two lines in the file to the drive letter you require and then close the file and save the changes.

-    Then exit Explorer and right-click on the ACAS icon and then click on Properties;

-    In the statement which contains "ACAS.EXE -T", remove the "-T" and add the following to the end of the statement: -CC:\ACASCFG\CONFIG.FPW

✘ Installing on an IBM Thinkpad - at the point when Setup needs to modify the CONFIG.SYS file and "Make Changes Now" is selected, error appears "MSCUISTF.DLL may be corrupted and cannot be loaded"

✔ Select "Make Changes later"

Post-Installation

✘ Page Preview screen contains "snow"

✔   Change your Printer Driver

✘ Printing to a Colour Printer and some characters do not print

✔ Your colour printer is low in ink for a particular colour; until a new colour ink cartridge is installed, select MONO in Printer Setup and ACAS will print in Black - and faster too!

✘ Update News program does not execute properly

✔ The Update News program uses Wordpad and you do not have it installed. With your Windows installation disk to hand, open Windows Setup and Add the File to your Accessories Group

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✘ Program Error: Not an OLE Object

✔ This error can occur when selecting reports in the Analytical Reports Menu. Reports in this Menu invoke our Graphics Server which requires Paint to be available in the Accessories Group. With your Windows installation disk to hand, open Windows Setup and Add the File to your Accessories Group

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✘ ACAS Landscape reports print in Portrait on IBM Thinkpad with OS/2 Warp and Lexmark 4029 Printer

✔ Change Printer Driver from 4029 PS39 to 4029 'Text'

Appendix H - ACAS Countries and World Regions

In Country Order

Code	Country	Sub-Region	Main Region
A*	ABU DHABI	MIDDLE EAST	MIDDLE EAST
AF	AFGHANISTAN	INDIAN SUB-CONTINENT	ASIA
ZA	ALBANIA	S.EUROPE	EUROPE
DZ	ALGERIA	N.AFRICA	AFRICA
AO	ANGOLA	S.AFRICA	AFRICA
AI	ANGUILLA	CARIBBEAN	SOUTH AMERICA
AG	ANTIGUA	CARIBBEAN	SOUTH AMERICA
AR	ARGENTINA	S.AMERICA	SOUTH AMERICA
AM	ARMENIA	CIS	EUROPE
AW	ARUBA	CARIBBEAN	SOUTH AMERICA
AU	AUSTRALIA	AUSTRALASIA	PACIFIC RIM
AT	AUSTRIA	W.EUROPE	EUROPE
AZ	AZERBAIJAN	CIS	EUROPE
BS	BAHAMAS	CARIBBEAN	SOUTH AMERICA
BH	BAHRAIN	MIDDLE EAST	MIDDLE EAST
BD	BANGLADESH	INDIAN SUB-CONTINENT	ASIA
BB	BARBADOS	CARIBBEAN	SOUTH AMERICA
BY	BELARUS	CIS	EUROPE
BE	BELGIUM	W.EUROPE	EUROPE
BZ	BELIZE	C.AMERICA	SOUTH AMERICA
BJ	BENIN	W.AFRICA	AFRICA
BM	BERMUDA	CARIBBEAN	SOUTH AMERICA
BT	BHUTAN	INDIAN SUB-CONTINENT	ASIA
BO	BOLIVIA	S.AMERICA	SOUTH AMERICA
B*	BOPHUTHATSWANA	S.AFRICA	AFRICA
BA	BOSNIA HERCEGOVINA	S.EUROPE	EUROPE
BW	BOTSWANA	S.AFRICA	AFRICA
BR	BRAZIL	S.AMERICA	SOUTH AMERICA
VG	BRITISH VIRGIN ISLANDS	CARIBBEAN	SOUTH AMERICA
BN	BRUNEI	SE ASIA	PACIFIC RIM
BG	BULGARIA	E.EUROPE	EUROPE
BF	BURKINA FASO	W.AFRICA	AFRICA
BI	BURUNDI	E.AFRICA	AFRICA
KH	CAMBODIA	SE ASIA	PACIFIC RIM
CM	CAMEROON	W.AFRICA	AFRICA
CA	CANADA	N.AMERICA	NORTH AMERICA
CV	CAPE VERDE	W.AFRICA	AFRICA
KY	CAYMAN ISLANDS	CARIBBEAN	SOUTH AMERICA
CF	CENTRAL AFRICAN REPUBLIC	W.AFRICA	AFRICA
CL	CHILE	S.AMERICA	SOUTH AMERICA
CN	CHINA	CHINA	PACIFIC RIM
CO	COLOMBIA	S.AMERICA	SOUTH AMERICA
KM	COMORO ISLANDS	S.AFRICA	AFRICA
CG	CONGO	W.AFRICA	AFRICA
CK	COOK ISLANDS	AUSTRALASIA	PACIFIC RIM
CR	COSTA RICA	C.AMERICA	SOUTH AMERICA
HR	CROATIA	S.EUROPE	EUROPE
CU	CUBA	CARIBBEAN	SOUTH AMERICA
CY	CYPRUS	S.EUROPE	EUROPE
CZ	CZECH REPUBLIC	E.EUROPE	EUROPE
DK	DENMARK	W.EUROPE	EUROPE
DJ	DJIBOUTI	E.AFRICA	AFRICA
DN	DOMINICA	CARIBBEAN	SOUTH AMERICA
DO	DOMINICAN REPUBLIC	CARIBBEAN	SOUTH AMERICA

D*	DUBAI	MIDDLE EAST	MIDDLE EAST
EC	ECUADOR	S.AMERICA	SOUTH AMERICA
EG	EGYPT	N.AFRICA	AFRICA
SV	EL SALVADOR	C.AMERICA	SOUTH AMERICA
GQ	EQUATORIAL GUINEA	W.AFRICA	AFRICA
ER	ERITREA	E.AFRICA	AFRICA
EE	ESTONIA	E.EUROPE	EUROPE
ET	ETHIOPIA	E.AFRICA	AFRICA
FA	FALKLAND ISLANDS	S.AMERICA	SOUTH AMERICA
FJ	FIJI	AUSTRALASIA	PACIFIC RIM
FI	FINLAND	W.EUROPE	EUROPE
FR	FRANCE	W.EUROPE	EUROPE
PF	FRENCH POLYNESIA	AUSTRALASIA	PACIFIC RIM
GA	GABON	W.AFRICA	AFRICA
GM	GAMBIA	W.AFRICA	AFRICA
GE	GEORGIA	CIS	EUROPE
DE	GERMANY	W.EUROPE	EUROPE
GH	GHANA	W.AFRICA	AFRICA
GI	GIBRALTAR	S.EUROPE	EUROPE
GR	GREECE	S.EUROPE	EUROPE
GL	GREENLAND	W.EUROPE	EUROPE
GD	GRENADA	CARIBBEAN	SOUTH AMERICA
GP	GUADELOUPE	CARIBBEAN	SOUTH AMERICA
GU	GUAM	AUSTRALASIA	PACIFIC RIM
GT	GUATEMALA	C.AMERICA	SOUTH AMERICA
GN	GUINEA	W.AFRICA	AFRICA
GW	GUINEA-BISSAU	W.AFRICA	AFRICA
GY	GUYANA	S.AMERICA	SOUTH AMERICA
HT	HAITI	CARIBBEAN	SOUTH AMERICA
HN	HONDURAS	C.AMERICA	SOUTH AMERICA
HK	HONG KONG	CHINA	PACIFIC RIM
HU	HUNGARY	E.EUROPE	EUROPE
IS	ICELAND	W.EUROPE	EUROPE
IN	INDIA	INDIAN SUB-CONTINENT	ASIA
ID	INDONESIA	AUSTRALASIA	PACIFIC RIM
IR	IRAN	MIDDLE EAST	MIDDLE EAST
IQ	IRAQ	MIDDLE EAST	MIDDLE EAST
IE	IRELAND	W.EUROPE	EUROPE
IL	ISRAEL	NEAR EAST	MIDDLE EAST
IT	ITALY	W.EUROPE	EUROPE
CI	IVORY COAST	W.AFRICA	AFRICA
JM	JAMAICA	CARIBBEAN	SOUTH AMERICA
JP	JAPAN	FAR EAST	PACIFIC RIM
JO	JORDAN	MIDDLE EAST	MIDDLE EAST
KZ	KAZAKHSTAN	CIS	EUROPE
KE	KENYA	E.AFRICA	AFRICA
KI	KIRIBATI	AUSTRALASIA	PACIFIC RIM
KW	KUWAIT	MIDDLE EAST	MIDDLE EAST
KG	KYRGYZSTAN	CIS	EUROPE
LA	LAOS	SE ASIA	PACIFIC RIM
LV	LATVIA	E.EUROPE	EUROPE
LB	LEBANON	NEAR EAST	MIDDLE EAST
LS	LESOTHO	S.AFRICA	AFRICA
LR	LIBERIA	W.AFRICA	AFRICA
LY	LIBYA	N.AFRICA	AFRICA
L*	LIECHTENSTEIN	W.EUROPE	EUROPE
LT	LITHUANIA	E.EUROPE	EUROPE
LU	LUXEMBOURG	W.EUROPE	EUROPE
MO	MACAU	CHINA	PACIFIC RIM
MK	MACEDONIA	S.EUROPE	EUROPE
MG	MALAGASY REPUBLIC	S.AFRICA	AFRICA
MW	MALAWI	S.AFRICA	AFRICA

MY	MALAYSIA	SE ASIA	PACIFIC RIM
MV	MALDIVES	INDIAN SUB-CONTINENT	ASIA
ML	MALI	W.AFRICA	AFRICA
MT	MALTA	S.EUROPE	EUROPE
MP	MARIANA ISLANDS	AUSTRALASIA	PACIFIC RIM
MH	MARSHALL ISLANDS	AUSTRALASIA	PACIFIC RIM
MQ	MARTINIQUE	CARIBBEAN	SOUTH AMERICA
MR	MAURITANIA	N.AFRICA	AFRICA
MU	MAURITIUS	S.AFRICA	AFRICA
MX	MEXICO	C.AMERICA	SOUTH AMERICA
MD	MOLDOVA	CIS	EUROPE
MC	MONACO	W.EUROPE	EUROPE
MN	MONGOLIA	CHINA	PACIFIC RIM
MA	MOROCCO	N.AFRICA	AFRICA
MZ	MOZAMBIQUE	S.AFRICA	AFRICA
MM	MYANMAR	SE ASIA	PACIFIC RIM
KP	N.KOREA	FAR EAST	PACIFIC RIM
NA	NAMIBIA	S.AFRICA	AFRICA
NR	NAURU	AUSTRALASIA	PACIFIC RIM
NP	NEPAL	INDIAN SUB-CONTINENT	ASIA
NL	NETHERLANDS	W.EUROPE	EUROPE
AN	NETHERLANDS ANTILLES	CARIBBEAN	SOUTH AMERICA
NC	NEW CALEDONIA	AUSTRALASIA	PACIFIC RIM
NZ	NEW ZEALAND	AUSTRALASIA	PACIFIC RIM
NI	NICARAGUA	C.AMERICA	SOUTH AMERICA
NE	NIGER	W.AFRICA	AFRICA
NG	NIGERIA	W.AFRICA	AFRICA
NO	NORWAY	W.EUROPE	EUROPE
OM	OMAN	MIDDLE EAST	MIDDLE EAST
PK	PAKISTAN	INDIAN SUB-CONTINENT	ASIA
PA	PANAMA	C.AMERICA	SOUTH AMERICA
PG	PAPUA NEW GUINEA	AUSTRALASIA	PACIFIC RIM
PY	PARAGUAY	S.AMERICA	SOUTH AMERICA
ZR	PDR CONGO	W.AFRICA	AFRICA
PE	PERU	S.AMERICA	SOUTH AMERICA
PH	PHILIPPINES	SE ASIA	PACIFIC RIM
PL	POLAND	E.EUROPE	EUROPE
PT	PORTUGAL	S.EUROPE	EUROPE
PR	PUERTO RICO	CARIBBEAN	SOUTH AMERICA
QA	QATAR	MIDDLE EAST	MIDDLE EAST
ZA	REP OF S.AFRICA	S.AFRICA	AFRICA
RE	REUNION	S.AFRICA	AFRICA
RO	ROMANIA	E.EUROPE	EUROPE
RU	RUSSIA	CIS	EUROPE
RW	RWANDA	E.AFRICA	AFRICA
KR	S.KOREA	FAR EAST	PACIFIC RIM
BL	SAINT BARTHELEMY	CARIBBEAN	SOUTH AMERICA
SM	SAINT-MARTIN	CARIBBEAN	SOUTH AMERICA
ST	SAO TOME	W.AFRICA	AFRICA
SA	SAUDI ARABIA	MIDDLE EAST	MIDDLE EAST
SN	SENEGAL	W.AFRICA	AFRICA
SC	SEYCHELLES	E.AFRICA	AFRICA
S*	SHARJAH	MIDDLE EAST	MIDDLE EAST
SL	SIERRA LEONE	W.AFRICA	AFRICA
SG	SINGAPORE	SE ASIA	PACIFIC RIM
SK	SLOVAKIA	E.EUROPE	EUROPE
SI	SLOVENIA	S.EUROPE	EUROPE
SB	SOLOMON ISLANDS	AUSTRALASIA	PACIFIC RIM
SO	SOMALIA	E.AFRICA	AFRICA
ES	SPAIN	W.EUROPE	EUROPE
LK	SRI LANKA	INDIAN SUB-CONTINENT	ASIA
PM	ST PIERRE AND MIQUELON	N.AMERICA	NORTH AMERICA

	ISLES		
KN	ST.KITTS AND NEVIS	CARIBBEAN	SOUTH AMERICA
LC	ST.LUCIA	CARIBBEAN	SOUTH AMERICA
VC	ST.VINCENT AND THE GRENADINES	CARIBBEAN	SOUTH AMERICA
SD	SUDAN	N.AFRICA	AFRICA
SR	SURINAM	S.AMERICA	SOUTH AMERICA
SZ	SWAZILAND	S.AFRICA	AFRICA
SE	SWEDEN	W.EUROPE	EUROPE
CH	SWITZERLAND	W.EUROPE	EUROPE
SY	SYRIA	NEAR EAST	MIDDLE EAST
TW	TAIWAN	FAR EAST	PACIFIC RIM
TJ	TAJIKISTAN	CIS	EUROPE
TZ	TANZANIA	E.AFRICA	AFRICA
TD	TCHAD	N.AFRICA	AFRICA
TH	THAILAND	SE ASIA	PACIFIC RIM
TG	TOGO	W.AFRICA	AFRICA
TO	TONGA	AUSTRALASIA	PACIFIC RIM
T*	TRANSKEI	S.AFRICA	AFRICA
TT	TRINIDAD & TOBAGO	CARIBBEAN	SOUTH AMERICA
TN	TUNISIA	N.AFRICA	AFRICA
TR	TURKEY	S.EUROPE	EUROPE
TM	TURKMENISTAN	CIS	EUROPE
TC	TURKS & CAICOS ISLANDS	CARIBBEAN	SOUTH AMERICA
UG	UGANDA	E.AFRICA	AFRICA
GB	UK	W.EUROPE	EUROPE
UA	UKRAINE	CIS	EUROPE
AE	UNITED ARAB EMIRATES	MIDDLE EAST	MIDDLE EAST
UY	URUGUAY	S.AMERICA	SOUTH AMERICA
US	USA	N.AMERICA	NORTH AMERICA
UZ	UZBEKISTAN	CIS	EUROPE
VU	VANUATU	AUSTRALASIA	PACIFIC RIM
V*	VENDA	S.AFRICA	AFRICA
VE	VENEZUELA	S.AMERICA	SOUTH AMERICA
VN	VIETNAM	SE ASIA	PACIFIC RIM
VI	VIRGIN ISLANDS	AUSTRALASIA	PACIFIC RIM
WS	W.SAMOA	AUSTRALASIA	PACIFIC RIM
YE	YEMEN	MIDDLE EAST	MIDDLE EAST
YU	YUGOSLAVIA	S.EUROPE	EUROPE
ZM	ZAMBIA	S.AFRICA	AFRICA
ZW	ZIMBABWE	S.AFRICA	AFRICA

ACAS Countries and World Regions

In World Sub-Region Order

Sub-Region	Code	Country	Main Region
AUSTRALASIA	AU	AUSTRALIA	PACIFIC RIM
AUSTRALASIA	CK	COOK ISLANDS	PACIFIC RIM
AUSTRALASIA	FJ	FIJI	PACIFIC RIM
AUSTRALASIA	PF	FRENCH POLYNESIA	PACIFIC RIM
AUSTRALASIA	GU	GUAM	PACIFIC RIM
AUSTRALASIA	ID	INDONESIA	PACIFIC RIM
AUSTRALASIA	KI	KIRIBATI	PACIFIC RIM
AUSTRALASIA	MP	MARIANA ISLANDS	PACIFIC RIM
AUSTRALASIA	MH	MARSHALL ISLANDS	PACIFIC RIM
AUSTRALASIA	NR	NAURU	PACIFIC RIM
AUSTRALASIA	NC	NEW CALEDONIA	PACIFIC RIM
AUSTRALASIA	NZ	NEW ZEALAND	PACIFIC RIM
AUSTRALASIA	PG	PAPUA NEW GUINEA	PACIFIC RIM
AUSTRALASIA	SB	SOLOMON ISLANDS	PACIFIC RIM
AUSTRALASIA	TO	TONGA	PACIFIC RIM
AUSTRALASIA	VU	VANUATU	PACIFIC RIM
AUSTRALASIA	VI	VIRGIN ISLANDS	PACIFIC RIM
AUSTRALASIA	WS	W.SAMOA	PACIFIC RIM
C.AMERICA	BZ	BELIZE	SOUTH AMERICA
C.AMERICA	CR	COSTA RICA	SOUTH AMERICA
C.AMERICA	SV	EL SALVADOR	SOUTH AMERICA
C.AMERICA	GT	GUATEMALA	SOUTH AMERICA
C.AMERICA	HN	HONDURAS	SOUTH AMERICA
C.AMERICA	MX	MEXICO	SOUTH AMERICA
C.AMERICA	NI	NICARAGUA	SOUTH AMERICA
C.AMERICA	PA	PANAMA	SOUTH AMERICA
CARIBBEAN	AI	ANGUILLA	SOUTH AMERICA
CARIBBEAN	AG	ANTIGUA	SOUTH AMERICA
CARIBBEAN	AW	ARUBA	SOUTH AMERICA
CARIBBEAN	BS	BAHAMAS	SOUTH AMERICA
CARIBBEAN	BB	BARBADOS	SOUTH AMERICA
CARIBBEAN	BM	BERMUDA	SOUTH AMERICA
CARIBBEAN	VG	BRITISH VIRGIN ISLANDS	SOUTH AMERICA
CARIBBEAN	KY	CAYMAN ISLANDS	SOUTH AMERICA
CARIBBEAN	CU	CUBA	SOUTH AMERICA
CARIBBEAN	DN	DOMINICA	SOUTH AMERICA
CARIBBEAN	DO	DOMINICAN REPUBLIC	SOUTH AMERICA
CARIBBEAN	GD	GRENADA	SOUTH AMERICA
CARIBBEAN	GP	GUADELOUPE	SOUTH AMERICA
CARIBBEAN	HT	HAITI	SOUTH AMERICA
CARIBBEAN	JM	JAMAICA	SOUTH AMERICA
CARIBBEAN	MQ	MARTINIQUE	SOUTH AMERICA
CARIBBEAN	AN	NETHERLANDS ANTILLES	SOUTH AMERICA
CARIBBEAN	PR	PUERTO RICO	SOUTH AMERICA
CARIBBEAN	BL	SAINT BARTHELEMY	SOUTH AMERICA
CARIBBEAN	SM	SAINT-MARTIN	SOUTH AMERICA
CARIBBEAN	KN	ST.KITTS AND NEVIS	SOUTH AMERICA
CARIBBEAN	LC	ST.LUCIA	SOUTH AMERICA
CARIBBEAN	VC	ST.VINCENT AND THE GRENADINES	SOUTH AMERICA
CARIBBEAN	TT	TRINIDAD & TOBAGO	SOUTH AMERICA
CARIBBEAN	TC	TURKS & CAICOS ISLANDS	SOUTH AMERICA
CHINA	CN	CHINA	PACIFIC RIM
CHINA	HK	HONG KONG	PACIFIC RIM
CHINA	MO	MACAU	PACIFIC RIM
CHINA	MN	MONGOLIA	PACIFIC RIM

CIS	AM	ARMENIA	EUROPE
CIS	AZ	AZERBAIJAN	EUROPE
CIS	BY	BELARUS	EUROPE
CIS	GE	GEORGIA	EUROPE
CIS	KZ	KAZAKHSTAN	EUROPE
CIS	KG	KYRGYZSTAN	EUROPE
CIS	MD	MOLDOVA	EUROPE
CIS	RU	RUSSIA	EUROPE
CIS	TJ	TAJIKISTAN	EUROPE
CIS	TM	TURKMENISTAN	EUROPE
CIS	UA	UKRAINE	EUROPE
CIS	UZ	UZBEKISTAN	EUROPE
E.AFRICA	BI	BURUNDI	AFRICA
E.AFRICA	DJ	DJIBOUTI	AFRICA
E.AFRICA	ER	ERITREA	AFRICA
E.AFRICA	ET	ETHIOPIA	AFRICA
E.AFRICA	KE	KENYA	AFRICA
E.AFRICA	RW	RWANDA	AFRICA
E.AFRICA	SC	SEYCHELLES	AFRICA
E.AFRICA	SO	SOMALIA	AFRICA
E.AFRICA	TZ	TANZANIA	AFRICA
E.AFRICA	UG	UGANDA	AFRICA
E.EUROPE	BG	BULGARIA	EUROPE
E.EUROPE	CZ	CZECH REPUBLIC	EUROPE
E.EUROPE	EE	ESTONIA	EUROPE
E.EUROPE	HU	HUNGARY	EUROPE
E.EUROPE	LV	LATVIA	EUROPE
E.EUROPE	LT	LITHUANIA	EUROPE
E.EUROPE	PL	POLAND	EUROPE
E.EUROPE	RO	ROMANIA	EUROPE
E.EUROPE	SK	SLOVAKIA	EUROPE
FAR EAST	JP	JAPAN	PACIFIC RIM
FAR EAST	KP	N.KOREA	PACIFIC RIM
FAR EAST	KR	S.KOREA	PACIFIC RIM
FAR EAST	TW	TAIWAN	PACIFIC RIM
INDIAN SUB-CONTINENT	AF	AFGHANISTAN	ASIA
INDIAN SUB-CONTINENT	BD	BANGLADESH	ASIA
INDIAN SUB-CONTINENT	BT	BHUTAN	ASIA
INDIAN SUB-CONTINENT	IN	INDIA	ASIA
INDIAN SUB-CONTINENT	MV	MALDIVES	ASIA
INDIAN SUB-CONTINENT	NP	NEPAL	ASIA
INDIAN SUB-CONTINENT	PK	PAKISTAN	ASIA
INDIAN SUB-CONTINENT	LK	SRI LANKA	ASIA
MIDDLE EAST	A*	ABU DHABI	MIDDLE EAST
MIDDLE EAST	BH	BAHRAIN	MIDDLE EAST
MIDDLE EAST	D*	DUBAI	MIDDLE EAST
MIDDLE EAST	IR	IRAN	MIDDLE EAST
MIDDLE EAST	IQ	IRAQ	MIDDLE EAST
MIDDLE EAST	JO	JORDAN	MIDDLE EAST
MIDDLE EAST	KW	KUWAIT	MIDDLE EAST
MIDDLE EAST	OM	OMAN	MIDDLE EAST
MIDDLE EAST	QA	QATAR	MIDDLE EAST
MIDDLE EAST	SA	SAUDI ARABIA	MIDDLE EAST
MIDDLE EAST	S*	SHARJAH	MIDDLE EAST
MIDDLE EAST	AE	UNITED ARAB EMIRATES	MIDDLE EAST
MIDDLE EAST	YE	YEMEN	MIDDLE EAST
N.AFRICA	DZ	ALGERIA	AFRICA
N.AFRICA	EG	EGYPT	AFRICA
N.AFRICA	LY	LIBYA	AFRICA
N.AFRICA	MR	MAURITANIA	AFRICA
N.AFRICA	MA	MOROCCO	AFRICA
N.AFRICA	SD	SUDAN	AFRICA

N.AFRICA	TD	TCHAD	AFRICA
N.AFRICA	TN	TUNISIA	AFRICA
N.AMERICA	CA	CANADA	NORTH AMERICA
N.AMERICA	PM	ST PIERRE AND MIQUELON ISLES	NORTH AMERICA
N.AMERICA	US	USA	NORTH AMERICA
NEAR EAST	IL	ISRAEL	MIDDLE EAST
NEAR EAST	LB	LEBANON	MIDDLE EAST
NEAR EAST	SY	SYRIA	MIDDLE EAST
S.AFRICA	AO	ANGOLA	AFRICA
S.AFRICA	B*	BOPHUTHATSWANA	AFRICA
S.AFRICA	BW	BOTSWANA	AFRICA
S.AFRICA	KM	COMORO ISLANDS	AFRICA
S.AFRICA	LS	LESOTHO	AFRICA
S.AFRICA	MG	MALAGASY REPUBLIC	AFRICA
S.AFRICA	MW	MALAWI	AFRICA
S.AFRICA	MU	MAURITIUS	AFRICA
S.AFRICA	MZ	MOZAMBIQUE	AFRICA
S.AFRICA	NA	NAMIBIA	AFRICA
S.AFRICA	ZA	REP OF S.AFRICA	AFRICA
S.AFRICA	RE	REUNION	AFRICA
S.AFRICA	SZ	SWAZILAND	AFRICA
S.AFRICA	T*	TRANSKEI	AFRICA
S.AFRICA	V*	VENDA	AFRICA
S.AFRICA	ZM	ZAMBIA	AFRICA
S.AFRICA	ZW	ZIMBABWE	AFRICA
S.AMERICA	AR	ARGENTINA	SOUTH AMERICA
S.AMERICA	BO	BOLIVIA	SOUTH AMERICA
S.AMERICA	BR	BRAZIL	SOUTH AMERICA
S.AMERICA	CL	CHILE	SOUTH AMERICA
S.AMERICA	CO	COLOMBIA	SOUTH AMERICA
S.AMERICA	EC	ECUADOR	SOUTH AMERICA
S.AMERICA	FA	FALKLAND ISLANDS	SOUTH AMERICA
S.AMERICA	GY	GUYANA	SOUTH AMERICA
S.AMERICA	PY	PARAGUAY	SOUTH AMERICA
S.AMERICA	PE	PERU	SOUTH AMERICA
S.AMERICA	SR	SURINAM	SOUTH AMERICA
S.AMERICA	UY	URUGUAY	SOUTH AMERICA
S.AMERICA	VE	VENEZUELA	SOUTH AMERICA
S.EUROPE	ZA	ALBANIA	EUROPE
S.EUROPE	BA	BOSNIA HERCEGOVINA	EUROPE
S.EUROPE	HR	CROATIA	EUROPE
S.EUROPE	CY	CYPRUS	EUROPE
S.EUROPE	GI	GIBRALTAR	EUROPE
S.EUROPE	GR	GREECE	EUROPE
S.EUROPE	MK	MACEDONIA	EUROPE
S.EUROPE	MT	MALTA	EUROPE
S.EUROPE	PT	PORTUGAL	EUROPE
S.EUROPE	SI	SLOVENIA	EUROPE
S.EUROPE	TR	TURKEY	EUROPE
S.EUROPE	YU	YUGOSLAVIA	EUROPE
SE ASIA	BN	BRUNEI	PACIFIC RIM
SE ASIA	KH	CAMBODIA	PACIFIC RIM
SE ASIA	LA	LAOS	PACIFIC RIM
SE ASIA	MY	MALAYSIA	PACIFIC RIM
SE ASIA	MM	MYANMAR	PACIFIC RIM
SE ASIA	PH	PHILIPPINES	PACIFIC RIM
SE ASIA	SG	SINGAPORE	PACIFIC RIM
SE ASIA	TH	THAILAND	PACIFIC RIM
SE ASIA	VN	VIETNAM	PACIFIC RIM
W.AFRICA	BJ	BENIN	AFRICA
W.AFRICA	BF	BURKINA FASO	AFRICA

W.AFRICA	CM	CAMEROON	AFRICA
W.AFRICA	CV	CAPE VERDE	AFRICA
W.AFRICA	CF	CENTRAL AFRICAN REPUBLIC	AFRICA
W.AFRICA	CG	CONGO	AFRICA
W.AFRICA	GQ	EQUATORIAL GUINEA	AFRICA
W.AFRICA	GA	GABON	AFRICA
W.AFRICA	GM	GAMBIA	AFRICA
W.AFRICA	GH	GHANA	AFRICA
W.AFRICA	GN	GUINEA	AFRICA
W.AFRICA	GW	GUINEA-BISSAU	AFRICA
W.AFRICA	CI	IVORY COAST	AFRICA
W.AFRICA	LR	LIBERIA	AFRICA
W.AFRICA	ML	MALI	AFRICA
W.AFRICA	NE	NIGER	AFRICA
W.AFRICA	NG	NIGERIA	AFRICA
W.AFRICA	ZR	PDR CONGO	AFRICA
W.AFRICA	ST	SAO TOME	AFRICA
W.AFRICA	SN	SENEGAL	AFRICA
W.AFRICA	SL	SIERRA LEONE	AFRICA
W.AFRICA	TG	TOGO	AFRICA
W.EUROPE	AT	AUSTRIA	EUROPE
W.EUROPE	BE	BELGIUM	EUROPE
W.EUROPE	DK	DENMARK	EUROPE
W.EUROPE	FI	FINLAND	EUROPE
W.EUROPE	FR	FRANCE	EUROPE
W.EUROPE	DE	GERMANY	EUROPE
W.EUROPE	GL	GREENLAND	EUROPE
W.EUROPE	IS	ICELAND	EUROPE
W.EUROPE	IE	IRELAND	EUROPE
W.EUROPE	IT	ITALY	EUROPE
W.EUROPE	L*	LIECHTENSTEIN	EUROPE
W.EUROPE	LU	LUXEMBOURG	EUROPE
W.EUROPE	MC	MONACO	EUROPE
W.EUROPE	NL	NETHERLANDS	EUROPE
W.EUROPE	NO	NORWAY	EUROPE
W.EUROPE	ES	SPAIN	EUROPE
W.EUROPE	SE	SWEDEN	EUROPE
W.EUROPE	CH	SWITZERLAND	EUROPE
W.EUROPE	GB	UK	EUROPE

ACAS Countries and World Regions

In Main World Region Order

Main Region	Sub-Region	Code	Country
AFRICA	E.AFRICA	BI	BURUNDI
AFRICA	E.AFRICA	DJ	DJIBOUTI
AFRICA	E.AFRICA	ER	ERITREA
AFRICA	E.AFRICA	ET	ETHIOPIA
AFRICA	E.AFRICA	KE	KENYA
AFRICA	E.AFRICA	RW	RWANDA
AFRICA	E.AFRICA	SC	SEYCHELLES
AFRICA	E.AFRICA	SO	SOMALIA
AFRICA	E.AFRICA	TZ	TANZANIA
AFRICA	E.AFRICA	UG	UGANDA
AFRICA	N.AFRICA	DZ	ALGERIA
AFRICA	N.AFRICA	EG	EGYPT
AFRICA	N.AFRICA	LY	LIBYA
AFRICA	N.AFRICA	MR	MAURITANIA
AFRICA	N.AFRICA	MA	MOROCCO
AFRICA	N.AFRICA	SD	SUDAN
AFRICA	N.AFRICA	TD	TCHAD
AFRICA	N.AFRICA	TN	TUNISIA
AFRICA	S.AFRICA	AO	ANGOLA
AFRICA	S.AFRICA	B*	BOPHUTHATSWANA
AFRICA	S.AFRICA	BW	BOTSWANA
AFRICA	S.AFRICA	KM	COMORO ISLANDS
AFRICA	S.AFRICA	LS	LESOTHO
AFRICA	S.AFRICA	MG	MALAGASY REPUBLIC
AFRICA	S.AFRICA	MW	MALAWI
AFRICA	S.AFRICA	MU	MAURITIUS
AFRICA	S.AFRICA	MZ	MOZAMBIQUE
AFRICA	S.AFRICA	NA	NAMIBIA
AFRICA	S.AFRICA	ZA	REP OF S.AFRICA
AFRICA	S.AFRICA	RE	REUNION
AFRICA	S.AFRICA	SZ	SWAZILAND
AFRICA	S.AFRICA	T*	TRANSKEI
AFRICA	S.AFRICA	V*	VENDA
AFRICA	S.AFRICA	ZM	ZAMBIA
AFRICA	S.AFRICA	ZW	ZIMBABWE
AFRICA	W.AFRICA	BJ	BENIN
AFRICA	W.AFRICA	BF	BURKINA FASO
AFRICA	W.AFRICA	CM	CAMEROON
AFRICA	W.AFRICA	CV	CAPE VERDE
AFRICA	W.AFRICA	CF	CENTRAL AFRICAN REPUBLIC
AFRICA	W.AFRICA	CG	CONGO
AFRICA	W.AFRICA	GQ	EQUATORIAL GUINEA
AFRICA	W.AFRICA	GA	GABON
AFRICA	W.AFRICA	GM	GAMBIA
AFRICA	W.AFRICA	GH	GHANA
AFRICA	W.AFRICA	GN	GUINEA
AFRICA	W.AFRICA	GW	GUINEA-BISSAU
AFRICA	W.AFRICA	CI	IVORY COAST
AFRICA	W.AFRICA	LR	LIBERIA
AFRICA	W.AFRICA	ML	MALI
AFRICA	W.AFRICA	NE	NIGER
AFRICA	W.AFRICA	NG	NIGERIA
AFRICA	W.AFRICA	ZR	PDR CONGO
AFRICA	W.AFRICA	ST	SAO TOME
AFRICA	W.AFRICA	SN	SENEGAL

AFRICA	W.AFRICA	SL	SIERRA LEONE
AFRICA	W.AFRICA	TG	TOGO
ASIA	INDIAN SUB-CONTINENT	AF	AFGHANISTAN
ASIA	INDIAN SUB-CONTINENT	BD	BANGLADESH
ASIA	INDIAN SUB-CONTINENT	BT	BHUTAN
ASIA	INDIAN SUB-CONTINENT	IN	INDIA
ASIA	INDIAN SUB-CONTINENT	MV	MALDIVES
ASIA	INDIAN SUB-CONTINENT	NP	NEPAL
ASIA	INDIAN SUB-CONTINENT	PK	PAKISTAN
ASIA	INDIAN SUB-CONTINENT	LK	SRI LANKA
EUROPE	CIS	AM	ARMENIA
EUROPE	CIS	AZ	AZERBAIJAN
EUROPE	CIS	BY	BELARUS
EUROPE	CIS	GE	GEORGIA
EUROPE	CIS	KZ	KAZAKHSTAN
EUROPE	CIS	KG	KYRGYZSTAN
EUROPE	CIS	MD	MOLDOVA
EUROPE	CIS	RU	RUSSIA
EUROPE	CIS	TJ	TAJIKISTAN
EUROPE	CIS	TM	TURKMENISTAN
EUROPE	CIS	UA	UKRAINE
EUROPE	CIS	UZ	UZBEKISTAN
EUROPE	E.EUROPE	BG	BULGARIA
EUROPE	E.EUROPE	CZ	CZECH REPUBLIC
EUROPE	E.EUROPE	EE	ESTONIA
EUROPE	E.EUROPE	HU	HUNGARY
EUROPE	E.EUROPE	LV	LATVIA
EUROPE	E.EUROPE	LT	LITHUANIA
EUROPE	E.EUROPE	PL	POLAND
EUROPE	E.EUROPE	RO	ROMANIA
EUROPE	E.EUROPE	SK	SLOVAKIA
EUROPE	S.EUROPE	ZA	ALBANIA
EUROPE	S.EUROPE	BA	BOSNIA HERCEGOVINA
EUROPE	S.EUROPE	HR	CROATIA
EUROPE	S.EUROPE	CY	CYPRUS
EUROPE	S.EUROPE	GI	GIBRALTAR
EUROPE	S.EUROPE	GR	GREECE
EUROPE	S.EUROPE	MK	MACEDONIA
EUROPE	S.EUROPE	MT	MALTA
EUROPE	S.EUROPE	PT	PORTUGAL
EUROPE	S.EUROPE	SI	SLOVENIA
EUROPE	S.EUROPE	TR	TURKEY
EUROPE	S.EUROPE	YU	YUGOSLAVIA
EUROPE	W.EUROPE	AT	AUSTRIA
EUROPE	W.EUROPE	BE	BELGIUM
EUROPE	W.EUROPE	DK	DENMARK
EUROPE	W.EUROPE	FI	FINLAND
EUROPE	W.EUROPE	FR	FRANCE
EUROPE	W.EUROPE	DE	GERMANY
EUROPE	W.EUROPE	GL	GREENLAND
EUROPE	W.EUROPE	IS	ICELAND
EUROPE	W.EUROPE	IE	IRELAND
EUROPE	W.EUROPE	IT	ITALY
EUROPE	W.EUROPE	L*	LIECHTENSTEIN
EUROPE	W.EUROPE	LU	LUXEMBOURG
EUROPE	W.EUROPE	MC	MONACO
EUROPE	W.EUROPE	NL	NETHERLANDS
EUROPE	W.EUROPE	NO	NORWAY
EUROPE	W.EUROPE	ES	SPAIN
EUROPE	W.EUROPE	SE	SWEDEN
EUROPE	W.EUROPE	CH	SWITZERLAND
EUROPE	W.EUROPE	GB	UK

30/08/00

MIDDLE EAST	MIDDLE EAST	A*	ABU DHABI
MIDDLE EAST	MIDDLE EAST	BH	BAHRAIN
MIDDLE EAST	MIDDLE EAST	D*	DUBAI
MIDDLE EAST	MIDDLE EAST	IR	IRAN
MIDDLE EAST	MIDDLE EAST	IQ	IRAQ
MIDDLE EAST	MIDDLE EAST	JO	JORDAN
MIDDLE EAST	MIDDLE EAST	KW	KUWAIT
MIDDLE EAST	MIDDLE EAST	OM	OMAN
MIDDLE EAST	MIDDLE EAST	QA	QATAR
MIDDLE EAST	MIDDLE EAST	SA	SAUDI ARABIA
MIDDLE EAST	MIDDLE EAST	S*	SHARJAH
MIDDLE EAST	MIDDLE EAST	AE	UNITED ARAB EMIRATES
MIDDLE EAST	MIDDLE EAST	YE	YEMEN
MIDDLE EAST	NEAR EAST	IL	ISRAEL
MIDDLE EAST	NEAR EAST	LB	LEBANON
MIDDLE EAST	NEAR EAST	SY	SYRIA
NORTH AMERICA	N.AMERICA	CA	CANADA
NORTH AMERICA	N.AMERICA	PM	ST PIERRE AND MIQUELON ISLES
NORTH AMERICA	N.AMERICA	US	USA
PACIFIC RIM	AUSTRALASIA	AU	AUSTRALIA
PACIFIC RIM	AUSTRALASIA	CK	COOK ISLANDS
PACIFIC RIM	AUSTRALASIA	FJ	FIJI
PACIFIC RIM	AUSTRALASIA	PF	FRENCH POLYNESIA
PACIFIC RIM	AUSTRALASIA	GU	GUAM
PACIFIC RIM	AUSTRALASIA	ID	INDONESIA
PACIFIC RIM	AUSTRALASIA	KI	KIRIBATI
PACIFIC RIM	AUSTRALASIA	MP	MARIANA ISLANDS
PACIFIC RIM	AUSTRALASIA	MH	MARSHALL ISLANDS
PACIFIC RIM	AUSTRALASIA	NR	NAURU
PACIFIC RIM	AUSTRALASIA	NC	NEW CALEDONIA
PACIFIC RIM	AUSTRALASIA	NZ	NEW ZEALAND
PACIFIC RIM	AUSTRALASIA	PG	PAPUA NEW GUINEA
PACIFIC RIM	AUSTRALASIA	SB	SOLOMON ISLANDS
PACIFIC RIM	AUSTRALASIA	TO	TONGA
PACIFIC RIM	AUSTRALASIA	VU	VANUATU
PACIFIC RIM	AUSTRALASIA	VI	VIRGIN ISLANDS
PACIFIC RIM	AUSTRALASIA	WS	W.SAMOA
PACIFIC RIM	CHINA	CN	CHINA
PACIFIC RIM	CHINA	HK	HONG KONG
PACIFIC RIM	CHINA	MO	MACAU
PACIFIC RIM	CHINA	MN	MONGOLIA
PACIFIC RIM	FAR EAST	JP	JAPAN
PACIFIC RIM	FAR EAST	KP	N.KOREA
PACIFIC RIM	FAR EAST	KR	S.KOREA
PACIFIC RIM	FAR EAST	TW	TAIWAN
PACIFIC RIM	SE ASIA	BN	BRUNEI
PACIFIC RIM	SE ASIA	KH	CAMBODIA
PACIFIC RIM	SE ASIA	LA	LAOS
PACIFIC RIM	SE ASIA	MY	MALAYSIA
PACIFIC RIM	SE ASIA	MM	MYANMAR
PACIFIC RIM	SE ASIA	PH	PHILIPPINES
PACIFIC RIM	SE ASIA	SG	SINGAPORE
PACIFIC RIM	SE ASIA	TH	THAILAND
PACIFIC RIM	SE ASIA	VN	VIETNAM
SOUTH AMERICA	C.AMERICA	BZ	BELIZE
SOUTH AMERICA	C.AMERICA	CR	COSTA RICA
SOUTH AMERICA	C.AMERICA	SV	EL SALVADOR
SOUTH AMERICA	C.AMERICA	GT	GUATEMALA
SOUTH AMERICA	C.AMERICA	HN	HONDURAS
SOUTH AMERICA	C.AMERICA	MX	MEXICO
SOUTH AMERICA	C.AMERICA	NI	NICARAGUA

SOUTH AMERICA	C.AMERICA	PA	PANAMA
SOUTH AMERICA	CARIBBEAN	AI	ANGUILLA
SOUTH AMERICA	CARIBBEAN	AG	ANTIGUA
SOUTH AMERICA	CARIBBEAN	AW	ARUBA
SOUTH AMERICA	CARIBBEAN	BS	BAHAMAS
SOUTH AMERICA	CARIBBEAN	BB	BARBADOS
SOUTH AMERICA	CARIBBEAN	BM	BERMUDA
SOUTH AMERICA	CARIBBEAN	VG	BRITISH VIRGIN ISLANDS
SOUTH AMERICA	CARIBBEAN	KY	CAYMAN ISLANDS
SOUTH AMERICA	CARIBBEAN	CU	CUBA
SOUTH AMERICA	CARIBBEAN	DN	DOMINICA
SOUTH AMERICA	CARIBBEAN	DO	DOMINICAN REPUBLIC
SOUTH AMERICA	CARIBBEAN	GD	GRENADA
SOUTH AMERICA	CARIBBEAN	GP	GUADELOUPE
SOUTH AMERICA	CARIBBEAN	HT	HAITI
SOUTH AMERICA	CARIBBEAN	JM	JAMAICA
SOUTH AMERICA	CARIBBEAN	MQ	MARTINIQUE
SOUTH AMERICA	CARIBBEAN	AN	NETHERLANDS ANTILLES
SOUTH AMERICA	CARIBBEAN	PR	PUERTO RICO
SOUTH AMERICA	CARIBBEAN	BL	SAINT BARTHELEMY
SOUTH AMERICA	CARIBBEAN	SM	SAINT-MARTIN
SOUTH AMERICA	CARIBBEAN	KN	ST.KITTS AND NEVIS
SOUTH AMERICA	CARIBBEAN	LC	ST.LUCIA
SOUTH AMERICA	CARIBBEAN	VC	ST.VINCENT AND THE GRENADINES
SOUTH AMERICA	CARIBBEAN	TT	TRINIDAD & TOBAGO
SOUTH AMERICA	CARIBBEAN	TC	TURKS & CAICOS ISLANDS
SOUTH AMERICA	S.AMERICA	AR	ARGENTINA
SOUTH AMERICA	S.AMERICA	BO	BOLIVIA
SOUTH AMERICA	S.AMERICA	BR	BRAZIL
SOUTH AMERICA	S.AMERICA	CL	CHILE
SOUTH AMERICA	S.AMERICA	CO	COLOMBIA
SOUTH AMERICA	S.AMERICA	EC	ECUADOR
SOUTH AMERICA	S.AMERICA	FA	FALKLAND ISLANDS
SOUTH AMERICA	S.AMERICA	GY	GUYANA
SOUTH AMERICA	S.AMERICA	PY	PARAGUAY
SOUTH AMERICA	S.AMERICA	PE	PERU
SOUTH AMERICA	S.AMERICA	SR	SURINAM
SOUTH AMERICA	S.AMERICA	UY	URUGUAY
SOUTH AMERICA	S.AMERICA	VE	VENEZUELA