

Flight Strip Printing (FSP) Terminal

User Manual

NATS Public



Document Information

This User manual is to provide guidance to Users of the Flight Strip Printing (FSP) element of the AFPEX service.

The Client Application for performing traffic operations enables the user to:

- › Send messages
- › Receive messages
- › Retrieve messages

Built-in forms assist in creating AFTN messages which conform to ICAO standard formats.

Incoming and outgoing traffic is interpreted by the system, and information is stored on the database for later investigation/interrogation.

Messages are held in dedicated mailboxes which are allocated to each customer.

The AFPEX Users monitor their mailboxes and are responsible for handling the messages in their mailboxes.

The Flight Strip Printing (FSP) terminal is designed to be used in tandem with the Active Flight Database parameter of the AFPEX User application, as an overall solution for FSP-based aerodrome operations.

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1. Active Flight Database (AFD)

1.1. AFD Functionality

What functionality does the Active Flights Database provide?

- › Gives an overview on all active flights including their current flight status
- › Provides a GUI for users to manage their Flight Programme and is used in conjunction with the Flight Strip Printing Application.
- › Offers AFD Monitor Setups to display only active inbound, outbound, and/or overflights.
- › Stores AFD Monitor Setups as templates for a quick later re-use.
- › Displays all Supplementary Flight Plans known by the system.

S	O	Info	Aircraft ID	Rules	Dep	Dest	Alt Arr	Type	Off-Block Time	CTOT	Arrival Time
🟢		planned	BAW17FG		EDDF	EGKK	EGLL	B735	11 01:32 (Est.)		11 02:43 (Est.)
🟢		delayed	CAL065		VTBD	EHAM	EDDF	B744	11 08:37 (Est.)		11 20:04 (Est.)
🟢		planned	CYP499		EHAM	LCLK	LCPH	A310	10 20:17 (Est.)		10 23:57 (Est.)
🔴		delayed	DLH444		EDDF	KATL			10 09:52 (Est.)		
🟢		planned	DLH5514		EDDF	LSGG	LFLL	RJ85	10 19:37 (Est.)		10 20:24 (Est.)
🟢		planned	EIN65W		EDDF	EIDW		B735	10 17:27 (Est.)		10 19:09 (Est.)
🟢		arrived	KLM1880		EDDN	EHAM		F50	10 07:07 (Act.)		10 08:37 (Act.)
🟢	⚠️	planned	MASS		EDDF	WMKK	WMKP ...	B772	10 08:04 (Est.)		10 19:33 (Est.)
🗑️		cancelled	ROT007		LRTR	EHAM		A310	10 06:57 (Est.)		10 09:22 (Est.)
🟢		departed	TRA5113		EHAM	LEMG	LEZL	B738	10 08:17 (Act.)		10 10:44 (Est.)
🟢		planned	TYR270		EDDF	LOWS	LOWL	MD87	11 04:17 (Est.)		11 05:01 (Est.)

The Colour Code Symbols utilised for Active Flights States as follows:

- Flight status symbols (column: S)
 - 🟢 Reliable entry
 - 🔴 Dubious entry
 - 🗑️ Cancelled entry
- Flight overdue symbols (column: O)
 - ⚠️ Overdue entry
- Flight information symbols (column: Info)
 - 🟡 Planned or delayed
 - 🔵 Departed
 - 🟢 Arrived
 - 🟠 Cancelled
 - 🟣 Proposed
 - 🟤 Suspended

N.B. Flight Status Symbols are categorised as follows:

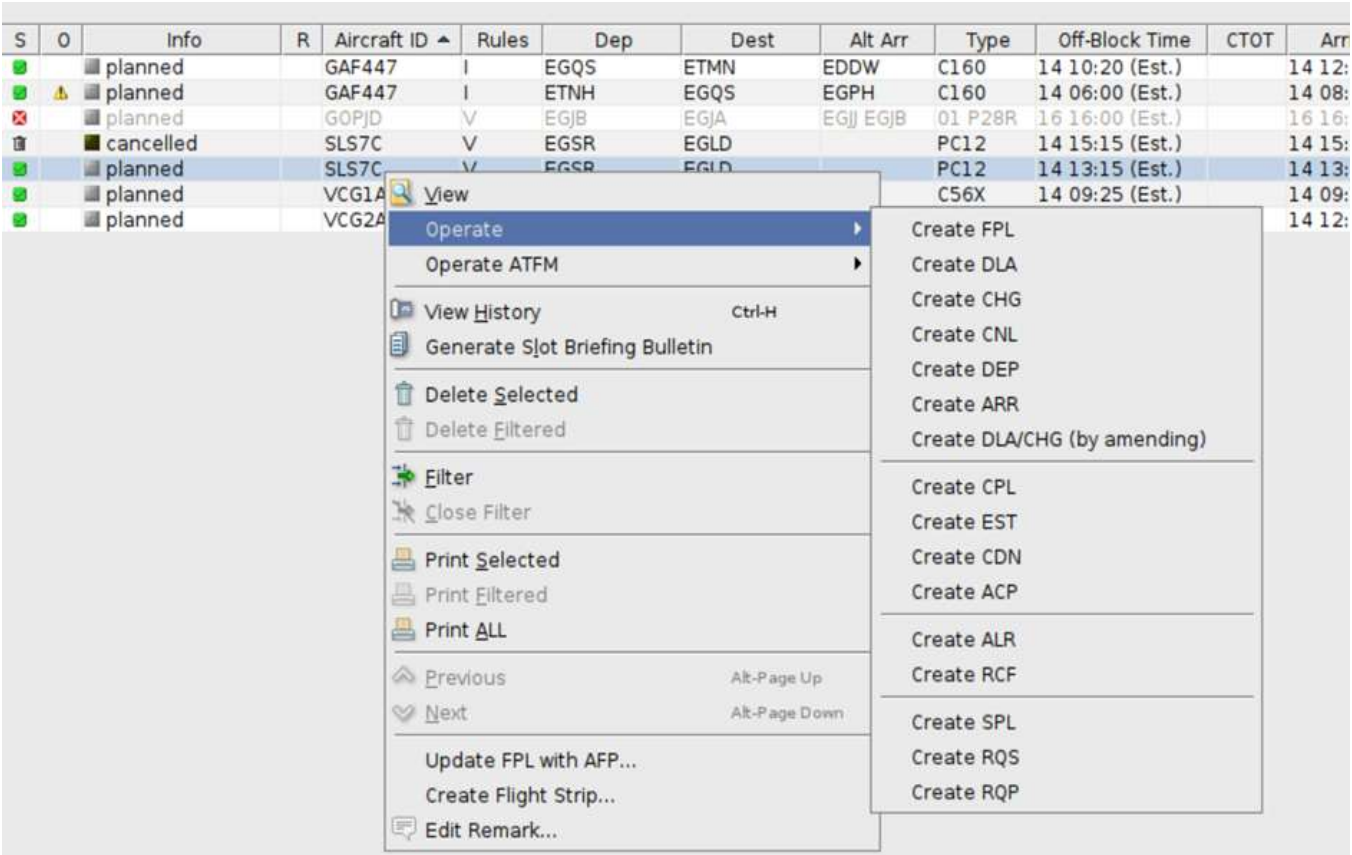
- › Reliable entry: Marks a reliable list entry, i.e. flights that have been cancelled or that have already arrived and been substituted by another flight with the same signature.
- › Dubious entry: Identifies a dubious entry (missing FPL, bad messages order, etc.).
- › Cancelled entry: Indicates a cancelled flight.

The AFD will provide an overview of all active flights known by the system i.e. flight plans within the AFPEX database, based upon the filters that are defined by the User. It provides:

- › Coloured symbols inform about the status of an active flight.
- › Right click to operate a selected flight. History window lists all messages related to a selected flight.
- › Create a Slot Briefing for an active flight.

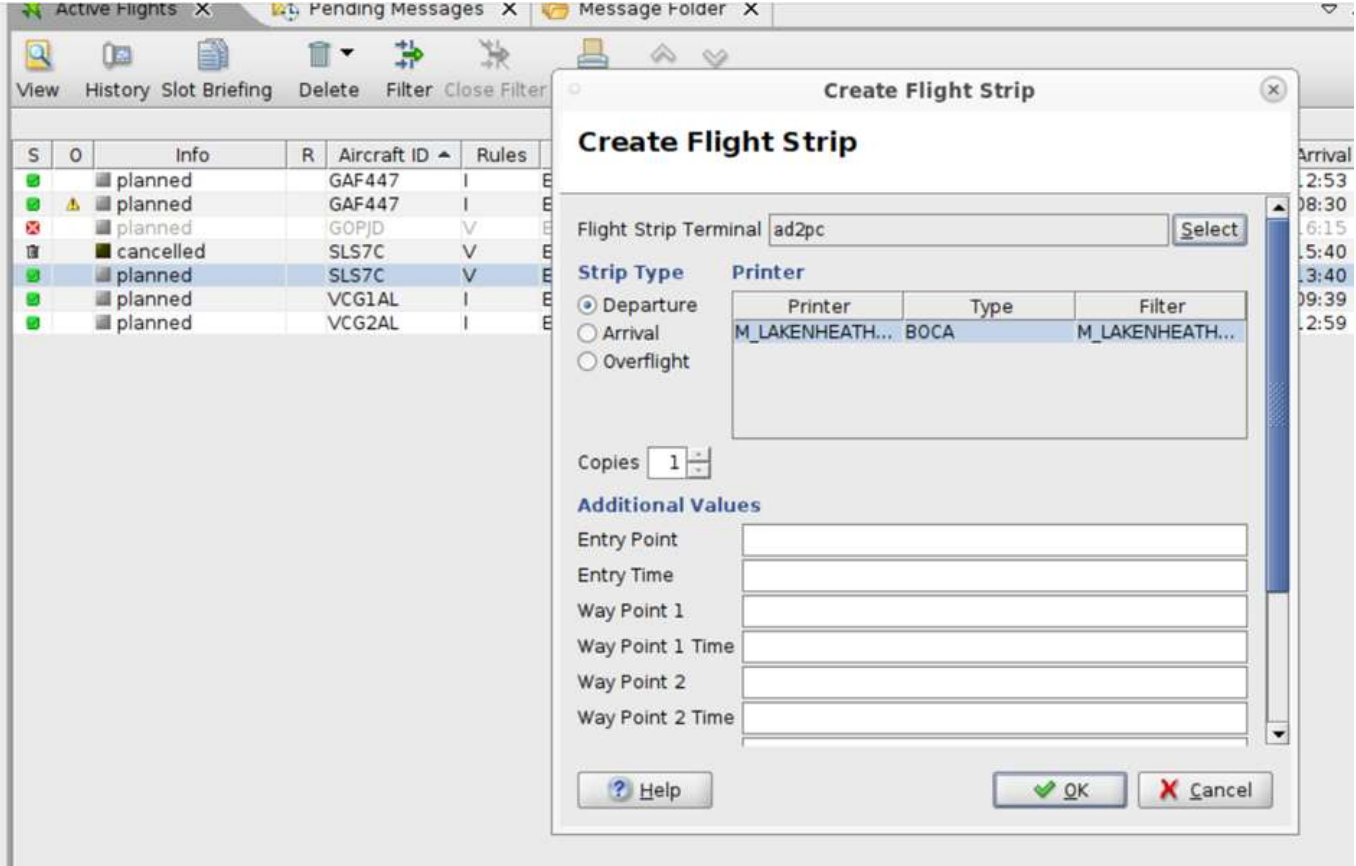
AFD – “Right Click to Operate a selected Flight”

- › The Right click feature allows the user to send flight plans and associated messages directly from the Active Flight menu and populates the status of the Flight when the message has been distributed.
- › Users can view the message history relating to all flight plans its and associated messages such as Delay (DLA), Slot allocation Messages (SAM) etc.
- › Users can add and edit remarks to movements.



1.2. AFD Relationship with Flight Strip Printing

- › The Active Flight monitor can be used in conjunction with FSP and gather a view of a unit's flight schedule.
- › When a Flight is updated by using Operate, as the Active Flight Database updates an appropriate message is sent via AFTN and a corresponding strip is printed (if applicable).
- › Users can manually print a Flight Strip from the Right Click menu.



Create flight strip will only print a flight strip if a flight plan has been received into the AFPEX database. Users cannot create ad hoc flight strips.

1.3. AFD – Slot Briefing

By clicking on the Slot Briefing ICON (third from left on the tool bar above), you can see all Slot Allocation Information (also known as the Slot Allocation Message (SAM)) relating to a specific flight plan. This provides full information and a summary of any historical notifications. You can see below the SAM that the system shows the original flight plan, a subsequent delay (DLA) and cancellation message.

An example of this is presented below.

Close
Print

CADAS
AERONAUTICAL INFORMATION SERVICES

Slot Allocation Information Bulletin:
DLH245 from LOWW to EDDF on 2012.12.06 – 17:30 UTC

Date: **06 Dec 2012**

Time: **13:52 UTC**

Service Type: **FULL**

<p>Aircraft Identification: DLH245</p> <p>Departure Aerodrome: LOWW</p> <p>Destination Aerodrome: EDDF</p> <p>Cal. Take-Off Time:</p> <p>Taxing Time:</p> <p>Runway Visual Range:</p> <p>Route: K0300F280 LOWW SID MOTIX UL610 UPALA Z744 PETIX T159 PSA STAR EDDF</p>	<p>IPPS Identification:</p> <p>Est. Off-Block Time: 17:30</p> <p>Est. Off-Block Date: 121206</p> <p>Initial Off-Block Time: 15:05</p> <p>Initial Off-Block Date: 2012.12.06</p>
---	---

History

2012.12.06-13:15:52
 (FPL-DLH245/A2342-I5
 -18744/H-X/AC
 -LOWW1505
 -K0300F280 LOWW SID MOTIX UL610 UPALA Z744 PETIX T159 PSA STAR EDDF
 -EDDF0130
 -D0F/121206)

2012.12.06-13:20:04
 (DLA-DLH245/A2332-LOWW1730-EDDF-D0F/121206)

2012.12.06-13:44:23
 (CNL-DLH245/A2342-LOWW1344-EDDF-D0F/121206)

1.4. AFD Monitor Setup

The AFD can be configured to cater for the individual's needs.

AFD will display any aircraft that falls within the parameters set by the User for those departing, arriving or overflying the aerodromes vicinity. To provide an accurate and coherent picture, a time frame can also be defined to see flights that are scheduled to take place which will/ may affect your operating window.



- › Setup an Active Flights monitor window by selecting: AFD>AFD Monitor Setup.
- › Show only active inbound, outbound, and/or overflights.
- › Select a timeframe for the flights to be monitored.
- › Add optional filter constraints to limit the number of flights to be displayed.
- › Store AFD Monitor Setups as templates for a quick later re-use. These are defined by the User e.g. Departures specific vs Arrivals leaning (Load > Stored AFD Monitor Requests).

1.5. AFD Supplementary Flight Plans

Supplementary Flight Plans are those sections of a flight plan which contain information pertinent to safety. When filled out fully, this section details; the endurance of an aircraft (actual time it can stay aloft rather than the expected flight time to reach destination which is EET), the number of persons aboard the aircraft (can be referred to as Souls On Board), emergency equipment (radios/ transmitters as well as life jackets/ dinghies) etc.

Should doubt exist as to the safety of an aircraft or its occupants, a request for this information may come to you. It may be that you need to pass this information to emergency services and this system allows you to:

- › Show all supplementary flight plans stored on the system.
- › Operate a selected supplementary flight plan message.
- › Send out supplementary flight plan messages easily upon reception of a Request Supplementary Flight Plan message.



- › AFD
 - › SUPPLEMENTARY FLIGHT PLANS
 - › Select desired SPL
 - › Operate (top tool bar)
- N.B.** Right click function on a highlighted callsign/data line also available)

2. Flight Strips

2.1. Departure / Arrival Flight Strips

AFPEX will print Departure/ Arrival FPSs if the following has been applied:

- › The Active Flights Database contains a flight plan.
- › The Aerodrome of the FSP Terminal is the departure/ Arrival/ Alternate aerodrome of that flight plan.
- › A filter is defined within the FSP Terminal that is assigned to an active printer.

The system then prints the appropriate FPS some time before the actual departure / arrival depending on the selected timeframes.

Below are examples of the pre-configured layouts available for use with explanations of which data sits where on the flight strip.

2.2. Departure Strip Layout

Layout I

Layout II

Layout III

Layout IV (non-local flight)

Layout V

Layout VII

Performance

end of route

date/time of flight strip issuance

Displays End of Route

CNL = cancelled flight
CHG = changed flight

Corresponding Flight Plan:

```
(FPL-DLH4454/0815-IS
-040733/M-SDFIRY/CA
-EDDM1249
-N0426F350 MIQ4N MIQ Y101 ALB UM726 ERL UL604 NMM V281
AMMAN/N0428F260 V281 NORRU DCT SONSA DCT ROBIS DCT OSKUR DCT ARTIP
-ERAM0111
-DOF/090921 REG/AID4711 PER/R RMK/TEST
-E/0500 P/22 R/UYE S/FDMJ J/LFUV
A/RED
C/HANSI)
```

2.3. Arrival Strip Layouts

Layout I

Layout II

Layout III

Layout IV (non-local flight)

Layout V

Layout VII

Legend:

- Call sign
- Dep. Aerodr./Time
- EOBT
- Dest. Aerodr./Time
- Date of Flight
- Aircraft Type
- Flight Level
- Registr. Marking
- Flight Rules/Types
- SSR Code
- Speed
- No. of aircraft
- Route
- Equipment
- Wake Turbulence

Corresponding Flight Plan:

```
(FPL-DLH4454/A0815-IS
-D4B733/M-SDFIRY/CA
-EDDM1249
-NO426F350 MIQ4N MIQ Y101 ALB UM726 ERL UL604 HMM V281
AMSAN/NO428F260 V281 NORRU DCT SONGA DCT ROBIS DCT OERUN DCT ARTIP
-ENAM0102
-DOF/090921 REG/AID4711 PER/R RHE/TEST
-E/0500 F/22 R/UYE-G/PDMJ J/LFUV
A/RED
C/HANST)
```

2.4. Overflight Flight Strips

An EST message entering the AFPEX system triggers the printing of an Overflight FPS if the following applies:

- > The Active Flights Database contains a flight plan to which the EST message relates
- > The relevant FIRs are defined within the FSP Terminal.
- > An "overflight" filter is defined within the FSP Terminal (containing at least one of the FIRs to which the EST is addressed) that is assigned to an active printer.

N.B. Overflight Flight strips rely on an EST Message being sent. This type of message is seldom used within the UK FIR/UIR except for those flights which cross the Atlantic Ocean due to non-contiguous radar coverage.

Here are examples of the pre-configured layouts available for use with explanations of which data sits where on the flight strip.

Layout I	DLH4454	EDDM	1240	AID4711	1320	Callsign
	A0815	NORKU	1320		OVR	Dep. Aerodr./Time
	44B733/M	EHAM	1351			EOBT
	*V281 NORKU DCT SONSA DCT ROBIS DCT OSKUR DCT ARTIP					Dest. Aerodr./Time
CTOT						
Layout II		44B733/M	1243	F350	I	Date of Flight
	T		DLH4454			Aircraft Type
	061027	1240	EDDM	1320		Flight Level
	V281 NORKU DCT SONSA					Registr. Marking
Layout III	I	44B733	SDFIRY		F350	Flight Rules/Types
		A0815	N0426	AID4711/S		SSR Code
	DLH4454	EDDM	EHAM			Speed
		1240/1245				No. of aircrafts
ATD						
Layout IV (non-local flight)	EDDM	DLH4454				Route
	◆	B733/M	I	EHAM	A0815	Equipment
		DOF/061027	S	R		Wake Turbulence
Performance						
Layout V	B733/M		NORKU			
	DLH4454		1320			F350
	A0815	N0426	W	S	EDDM	*V281 NORKU*
			1240	SDFIRY/CA	1351	EHAM
					AID4711	200833
			item 10a) item 8b) = military flight		date/time of flight strip issuance	
Layout VII	DLH4454	M	NORKU	OVR	F350	
	B733	N0426	0704			
	A0815				EDDM	1240
					EHAM	
						27/10/06
CNL = cancelled flight CHG = changed flight						

Corresponding Flight Plan:

```
(FPL-DLH4454/A0815-IS
-04B733/M-SDFIRY/CA
-EDDM1249
-N0426F350 MIQ4N MIQ Y101 ALB UM726 ERL UL604 HMM V281
AMSAN/N0428F260 V281 NORKU DCT SONSA DCT ROBIS DCT OSKUR DCT ARTIP
-EHAM0111
-DOF/090921 REG/AID4711 PER/R RMK/TEST
-E/0500 P/22 R/UVS S/PDMJ J/LFUV
A/RED
C/HANSI)
```

3. FSP Application

3.1. FSP Application Setup

The FSP Terminal can only print out flight strips if the following steps have been executed:

1. Set up a filter to define the content to be printed
2. Install a flight strip printer the system is to use and assign a filter to this printer
3. Start the flight strip printer

The filter, printer, and assignment settings you have defined are not linked with your user settings but associated with the FSP Terminal itself. All users using this FSP Terminal have the same settings.

An FSP Terminal can only print, if a user has logged on and has started the printer(s). Once running, the FSP application must be left logged on to operate in the background e.g. minimise window.

Selecting a printer

Pending flight strips can only be printed if a printer is defined and assigned with a filter. Retrieved flight strips, test flight strips, or empty flight strips, however, can be printed without a filter assignment.

To open this tab page:

1. Select *Parameter > Printer*.

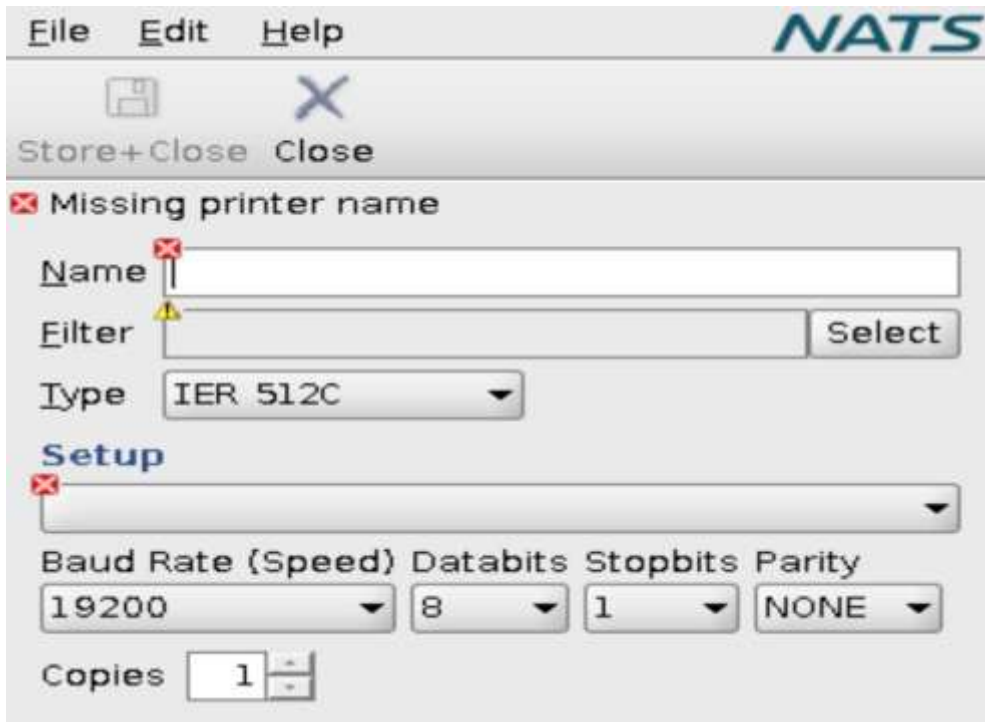
The tab page Printer shows all printers that the system knows. It displays the name of each *Printer*, its *Type*, the *Setup*, and the assigned *Filter*.

Printer ▲	Type	Setup	Filter
printer	BOCA	d /dev/ttyUSB1 1	filter

total 1

View/Edit/Add a Printer

Click *View*, *Edit*, or *Add* to open the following window:



1. Specify a *Name* for the printer.
2. To be able to print pending flight strips, you need to assign the printer with a filter. This filter will be set up by the AFPEX Administrator and will then be available as an option to the user:

Click *Select* and select the appropriate filter from the list.

3. Select the *Type* of the printer.

You can choose between hardware printers and software printers. A hardware printer is a physical device. A software printer is a file printer or a console printer, which emulates a printer.

4. Depending on the selected *Type*, you need to define a different *Setup*:

Selected Printer Type	Definition of Setup
IER	<p>An IER printer is a real hardware printer to actually print flight strips on paper. N.B. IER printers are bag tag/flight strip printer of the IER company. They are connected via a serial port and work on the standard PECTAB.</p> <ol style="list-style-type: none"> 1. Select the <i>COM</i> port of the printer from the drop-down menu <i>Setup</i>. 2. Define the <i>Baud Rate</i> (19200), the number of <i>Databits</i> (8) and <i>Stopbits</i> (1), and the <i>Parity</i> (none). 3. You can also define the number of <i>Copies</i> that are to be printed.

Selected Printer Type	Definition of Setup
BOCA	<p>This printer type is an alternative to the IER printer, connected via USB.</p> <ol style="list-style-type: none"> Select one of the following options <ul style="list-style-type: none"> To set up the printer as local device, select the checkbox <i>Device Setup</i> and enter the <i>Name</i> of the printer: Example: /dev/usb/lp0 with Linux, or the Windows share name. To set up the BOCA printer as system printer, select the checkbox <i>System Printer</i> and choose a printer from your OS. You can also define the number of <i>Copies</i> that are to be printed.
Log	<p>The log printer gives quick access to flight strips right on your screen. It displays the flight strips to be "printed" on the log printer in an additional window on your screen.</p> <p>It displays the same information as available on a paper flight strip:</p> <ul style="list-style-type: none"> Message type (ARR, DEP, etc.) Aircraft ID Departure and destination time and aerodrome, Overflight FIRs (if available), Route, speed, altitude, etc. <p>Click <i>Clear</i> to clear the window.</p> <p>INFO The window shows up to 500 strips. With the 501st, the system removes the first flight strip from the list.</p>
System	<p>A system printer is one of the printers defined in your environment. It may be any printer.</p> <p>The <i>Setup</i> initially displays your system default printer. To change it open the drop-down menu which shows all printers that are defined within your system.</p>

Once the printer is set up there is the functionality to print a test/empty strip.

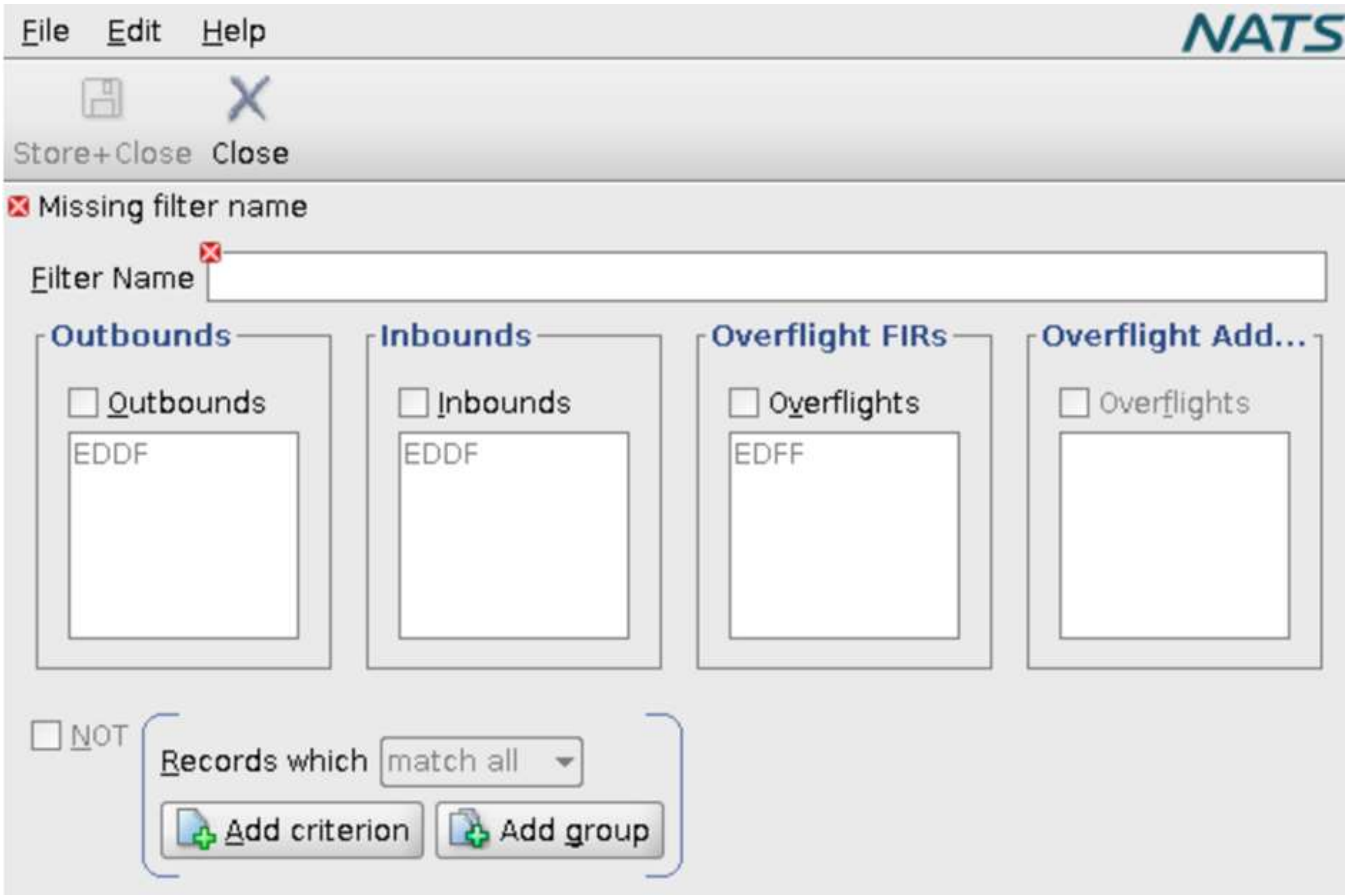
3.2. FSP User Defined Filter

Parameter > FSP Filter

Set up a filter to define the content to be printed:

1. Click View, Edit, or Add.
2. Specify a Filter Name that is unique on this terminal
3. Select on or more of the following options:
 - > **Inbounds:** Inbound flights to create arrival strips for the selected aerodromes.
 - > **Outbound:** Outbound flights to create departure strips for the selected aerodromes.
 - > Overflights to create overflight strips for the selected FIRs/Addresses.

To furnish the filter with additional criteria, use the filter section in the lower part of the window Add/Edit filter



N.B. Since the FSP Terminal is responsible for flight strips that are relevant for the aerodrome at which the FSP Terminal is located, departure and destination aerodrome are the same. The FIR(s) may vary. However, you can add additional filter criteria and thus include another departure/destination aerodrome.

3.3. Printer Status

The tab page *Printer Status* holds information on the configured flight strip printers.

To open this tab page:

1. Select *Diagnosis > Printer Status*.

Status	Name	Type	Filter	Queue	Pending
Offline	printer	EOCA	filter	\$FSP0001	0

- › From here for can start/stop the printer and you can see if the printer is offline or online.
- › You can also view which filter the printer is using as well as pending messages and the printer mailbox that the printer is associated with in this instance: \$FSP0001

To start a printer:

1. Select the respective entry from the list.
2. Click *Start printer*.

The *Status* changes from Offline to Online and is highlighted green.

The printer is then active but not necessarily printing.

To stop a printer:

1. Select the respective entry from the list.
2. Click *Stop printer*.

The *Status* changes to Offline.

To empty a print queue:

1. Click *Clear printer queue*.
The flight strips the printer queue contains are removed.

You can directly retrieve pending flight strips:

1. Right-click a printer to open the context menu.
2. Select *Find pending flight strips*.

The system automatically retrieves the pending messages of the last 24 hours and displays them on a *Flight Strip Retrieval Result* session.

3. Click *Edit data* on the *Flight Strip Retrieval Result* session to change the filter settings.

N.B. It is not possible to clear the printer queue or to retrieve pending flight strips for printers that are Online.

3.4. Show Alarms

Upon occurrence of certain events, the system generates alarms to immediately notify the user. Such an event is, for instance, the pending message (SS, SVC, ordinary), server connection loss, etc.

If the system triggers an alarm, the alarm section in the status bar at the bottom of the terminal window changes its colour and shows the number of alarms of the same kind.

N.B. Several alarms may relate to one incident only. The existence of one pending SS SVC message, for instance, results in three alarms (if activated).

To open the tab page *Alarms*:

- › Double-click the alarm section in the status bar or
- › Select *Diagnosis > Show Alarms*.

To acknowledge an alarm:

1. Click *Acknowledge* alarm.

The alarm is deactivated and removed from the list *Alarms*.

Time	Alarm
2021.04.21-10:11:58	High priority message added to pending list
2021.04.21-10:11:58	SVC message added to pending list

- › The first column shows the priority of the alarm as defined in the *Own User Preferences*
- › Time the alarm was generated
- › Details on the alarm

Alarm Types

“Connection to server lost”:

The system also flashes this note in the status bar, if the terminal wanted to connect to the server (identified by its URL) but was unable to reach any of the cluster members.

“Server and client time differ too much”:

The times that the server and the terminal application show differ from each other by more than two minutes.

3.5. Troubleshooting

The list below are common problems that can occur with the AFPEX/CADAS-ATS FSP Terminal and offers a possible solution:

User cannot log in, check if:

- › Your administrator has registered your terminal with its current computer name.
- › Computer name of your terminal matches FSP registration information.

Terminal does not connect, check if:

- › All network cables are connected correctly.
Status line of the terminal shows a server.

Certain COM port is not in selection list

- › Check if the selected COM port has already been taken by another printer.

Printer does not print, check if:

- › Printer is installed correctly in FSP Terminal (print test flight strip).
- › Printer has power connection (print test flight strip).
- › Printer is in online mode (print test flight strip).
- › Printer is correctly connected to FSP terminal (print test flight strip).
- › FSP terminal is connected to CADAS-ATS system.

Printer is not in selection list

- › Check if printer has already started or is busy with a print-on demand print job.

Retrieved flight strips cannot be printed, check if:

- › Printer is busy with another print job.
- › Requested flight strips are marked correctly.

Cannot filter on Inbounds, Outbound, or Overflights

- › If the Inbounds, Outbounds, or Overflights area in the filter dialogue
- › Is disabled (refer to View/Edit/Add a Filter), there is no
- › Corresponding element assigned to the FSP Terminal.

Not all retrieved flight strips are shown

- › Try the up and down buttons to see more flight strips.
 1. Console window does not appear
 - a. Close your FSP Terminal application.
 - b. Open your Windows Start menu.
 - c. Select Programs/Java Web Start/Java Web Start, or double click the Java Web Start icon on your Windows desktop.
 - d. Below Applications: Downloaded Applications select the AFPEX/CADAS FSP Terminal with one click.
 - e. Select File/Preferences in the menu bar.
 - f. Select the Advanced tab.
 - g. Select the checkbox Show Java Console at Output Options.
 - h. Click OK and close the Java Web Start Application Manager.

Now, with every start of the CADAS-ATS FSP Terminal, the console window will appear.

3.6. Flight Strip Retrieval

The tab page *Flight Strip Retrieval* allows you to retrieve flight strips and to reprint them, if necessary. This functionality is available for data that had been submitted over the preceding 30 days.

To open this tab page:

1. Select *Retrieval > Flight Strip Retrieval*.

The tab page *Retrieval Specification Setup* opens which allows you to create a new retrieval specification.

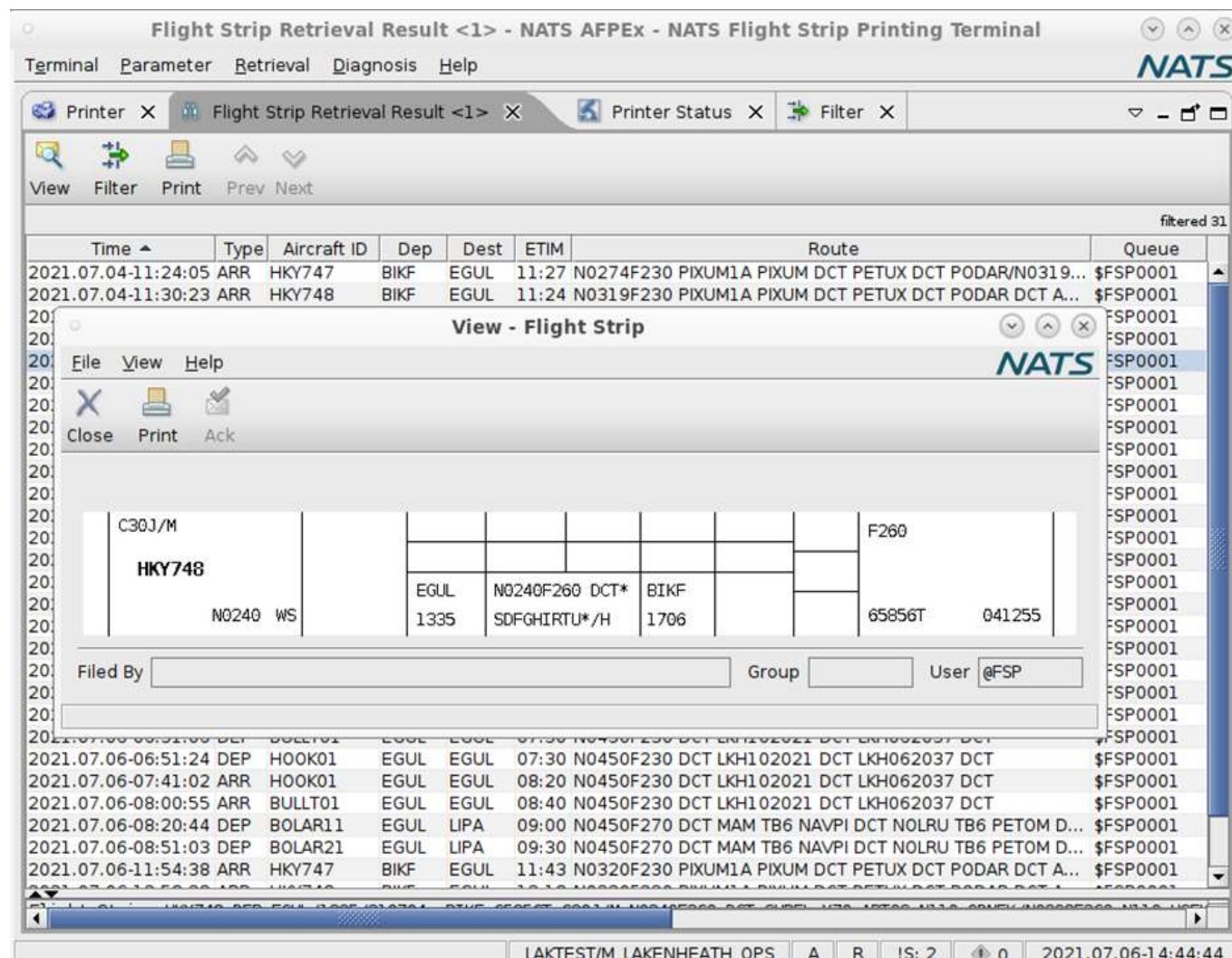
To make it easier to work with this filter, a direct help feature is available:

1. Click the *Help* menu of this window.
2. Click *Direct Help*.

The mouse pointer changes its colour and gets a question mark appended.

3. Click the item for which you need help.

A pop-up window appears that contains information on this particular item.



To store the current retrieval request:

1. Click *Store data*.
 - > The window *Store Retrieval Setup* opens.
2. If you check the *Save as default* box, the system names the filter <default>:<USERNAME> (Example: <default>:JOHN), which you cannot change.

This filter is displayed automatically whenever you start a retrieval session.

To load a stored retrieval specification:

1. Click *Load data*
 - › The window *Load Retrieval Setup* will open.
2. Select one of the retrieval specifications.
3. Click *OK*.
 - › The data is loaded into the current *Retrieval Specification Setup* window.
4. Click *Retrieve* to start the retrieval process.

The system displays the name of the filter you are using and, of course, all data that match this filter in the *Retrieval Result* window.

Section	Description
<i>Recording Timestamp</i>	<p>To enter the time period for the retrieval (day and time a record was stored in the database):</p> <p>INFO You might not be allowed to retrieve data older than a couple of hours, e.g. 48 h. If so, the system tells you so (Timeframe restricted to last 48 hours). You can then only retrieve records that were stored within the last 48 hours.</p> <ol style="list-style-type: none"> 1. Select <i>Absolute</i> or <i>Relative</i> time frame <p>If you select <i>Absolute</i>:</p> <ol style="list-style-type: none"> 2. Enter <i>Start</i> for the filter. You can select <i>First Record</i> or enter a <i>Time</i>. 3. Enter <i>End</i> for the filter. You can select <i>Last Record</i> or enter a <i>Time</i>. <p>INFO To search the entire database, select <i>First Record</i> and <i>Last Record</i>.</p> <p>If you select <i>Relative</i>:</p> <ol style="list-style-type: none"> 4. Enter days (<i>d</i>), hours (<i>h</i>) and minutes (<i>m</i>). <ul style="list-style-type: none"> ▶ <i>Absolute</i>: The system shows all items from <i>Start</i> to <i>End</i>. ▶ <i>Relative</i>: The system shows all items from current time - days/hours/minutes to the last record.
<i>Flight Strip</i>	<ol style="list-style-type: none"> 1. Define the respective criteria the flight strips to be retrieved have to fulfil in the following fields: <ul style="list-style-type: none"> • <i>Aircraft ID</i> • <i>SSR Code</i> • <i>Aircraft Type</i> • <i>Flight Rule</i> 2. Define the departure /destination aerodrome of the flight strips to be retrieved in the fields <i>Dep. Aero</i> and <i>Dest. Aero..</i>
<i>Printer Queue</i>	Select the printer queue to be considered for the retrieval.
<i>Pending Status</i>	<p>The following options are available:</p> <ul style="list-style-type: none"> • <i>Pending</i>: Select this checkbox if flight strips that have not yet been printed are to be considered for the retrieval. • <i>Printed</i>: Select this checkbox if flight strips that have already been printed are to be considered for the retrieval. • Select both checkboxes, to retrieve flight strips that have been printed as well as flight strips that have not yet been printed.

[Flight Strip Retrieval Result](#)

The tab page *Flight Strip Retrieval Result* shows all FPLs that match the given criteria in a list:

Recording Timestamp

Absolute
 Relative

Start First Record

 Time

End Last Record

 Time

Flight Strip

Aircraft ID
SSR Code

Aircraft Type
Flight Rule

Dep. Aero.
Dest. Aero.

Printer Queue **Pending Status**

Queue

 Pending
 Printed

Column	Description
<i>Time</i>	Time when the flight strip was created or modified
<i>Type</i>	Type of message
<i>Aircraft ID</i>	Aircraft ID
<i>Dep/Dest</i>	Departure and destination aerodrome
<i>ETIM</i>	Shows the validity of the flight strip as it indicates the estimated time of departure, arrival, or overflight.
<i>Route</i>	Details on the route
<i>Queue</i>	Details on the print queue via which the flight strip was printed

You may print one or all retrieved flight strip(s).

To sort the list by a column:

1. Click the label of the column
 - › The list is sorted by the column (ascending).
2. (Optional) Click the label of the column again.
 - › The list is sorted by the column (descending).

If you view the latest data, you can specify that new items are added to the list. This gives you a monitoring function:

1. Right-click the list to open the context menu.
2. Select *Stay at bottom*.

N.B. If you change the sorting order so that the newest record is at the top of the list, the system inserts new records at the top.

3.7. Preview Pane

The preview pane shows the item(s) you selected from the list. The message(s) are in plain text. Control characters are shown as a square.

To adapt the size of the preview pane:

1. Place the cursor on the frame between the list and the preview pane so that it becomes a double-headed arrow.
2. Click and drag the frame upwards or downwards.
3. The arrows inside the frame allow you to show and hide the preview pane.

Selected Printer Type	Definition of Setup
IER	<p>An IER printer is a real hardware printer to actually print flight strips on paper.</p> <p>N.B. IER printers are bag tag/flight strip printer of the IER company. They are connected via a serial port and work on the standard PECTAB.</p> <ol style="list-style-type: none"> 1. Select the <i>COM</i> port of the printer from the drop-down menu <i>Setup</i>. 2. Define the <i>Baud Rate</i> (19200), the number of <i>Databits</i> (8) and <i>Stopbits</i> (1), and the <i>Parity</i> (none). 3. You can also define the number of <i>Copies</i> that are to be printed.
BOCA	<p>This printer type is an alternative to the IER printer, connected via USB.</p> <ol style="list-style-type: none"> 1. Select one of the following options <ul style="list-style-type: none"> › To set up the printer as local device, select the checkbox <i>Device Setup</i> and enter the <i>Name</i> of the printer: › Example: /dev/usb/lp0 with Linux, or the Windows share name. › To set up the BOCA printer as <i>system printer</i>, select the checkbox <i>System Printer</i> and choose a printer from your OS. 2. You can also define the number of <i>Copies</i> that are to be printed.

Selected Printer Type	Definition of Setup
Log	<p>The log printer gives quick access to flight strips right on your screen. It displays the flight strips to be "printed" on the log printer in an additional window on your screen.</p> <p>It displays the same information as available on a paper flight strip:</p> <ul style="list-style-type: none"> › Message type (ARR, DEP, etc.) › Aircraft ID › Departure and destination time and aerodrome, › Overflight FIRs (if available), › Route, speed, altitude, etc. <p>Click <i>Clear</i> to clear the window.</p> <p>INFO The window shows up to 500 strips. With the 501st, the system removes the first flight strip from the list.</p>
System	<p>A system printer is one of the printers defined in your environment. It may be any printer.</p> <p>The <i>Setup</i> initially displays your system default printer. To change it open the drop-down menu which shows all printers that are defined within your system.</p>

4. Support Contact Details

For 1st line support, available 24/7, contact NATS for Password resets, connection problems using:

- › **Tel No.:** 01489 612790
- › **Email:** ServiceOperationsHelpdesk@nats.co.uk

For 2nd line Support, Mon-Fri 0800 – 1600, contact NATS using:

- › **Email:** DataServicesSupport@nats.co.uk