

TopSky plugin for Portugal vACC

User Manual Version 2.0

Contents

Introduction

1.1 Disclaimer

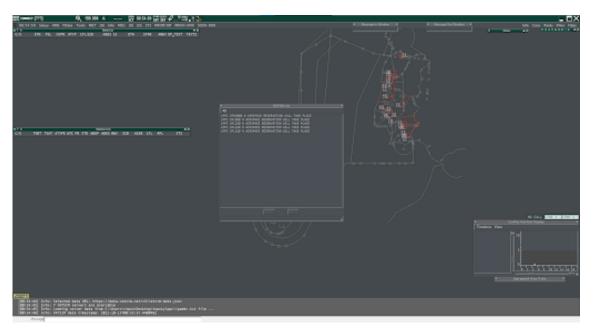
Although - as its name suggests - the plugin is based on TOPLIS and the TopSky ATM system, it is in no way affiliated with or endorsed by Thales Group or NAV Portugal. Similarities between plugin features and the real system are not entirely coincidental, but the plugin can not be used as a real world training aid. [?]

1.2 Foreword

EuroScope, a controller client developed by Gergely Csernák for the VATSIM network, was first released for public use in September 2007. One of the biggest changes in version 3.1 was the possibility for the user community to customize the program to an even higher degree than was possible before by writing their own plugins that can be used to alter the way information is presented and even create completely new functionality into the program. This allowed creating very detailed simulations of all kinds of ATC systems without making the main program overly complex. Version 3.2 expands on these possibilities, making it possible to create even better plugins. The TopSky plugin (a.k.a. The Plugin Formerly Known As "EUROCAT 2000 E") started out as a very small project to create a couple of customized aircraft tag items, but as more information about the real system and the possibilities with the plugin development became available, it slowly grew to include an almost complete set of tag items, tag menus, graphical elements on the radar display and some additional functionality.

System Description

2.1 Main Window



Euroscope should load with some preplaced windows similar to the above configuration

Screen resolutions other than 1920x1080 will yield different results. Larger resolutions will bring preplaced windows towards the left and middle, while smaller resolutions may potentially place windows outside the screen. It is recommended for users experiencing difficulties related to their screen size to experiment and create custom settings in the TopSkySettingsLocal file containing revised window placements adjusted for their own screen. Refer to TopSky_Developer_Guide_Settings.xlsx for available settings

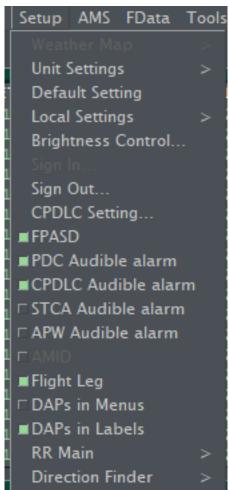
2.2 Global Menu

01:44:30 Setup AMS FData Tools MET [0] Info MSG [0] [0] STS RROff/Off M000-999 S000-999

The Global Menu is located on the top edge of the radar screen. It displays the current

UTC time and contains a number of submenus which are explained below.

2.2.1 Setup Menu



Setup Menu allows for various adjustments. Each

position will load its defined settings based on the active Primary Frequency. Most

used options are CPDLC Setting for CPDLC operations and Default Setting to reset options.

- Unit Settings >	
- Default Setting	Resets all settings to their default values (keeps login callsign specif
- Local Settings >	
- Brightness Control >	
- Sign In	Loads personal settings. The settings are specified in the TopSkySet
- Sign Out	Clears any personal settings and resets all settings to thei
- CPDLC Setting	
- FPASD	
- PDC Audible alarm	Toggle
- CPDLC Audible alarm	Toggles
- STCA Audible alarm	
- APW Audible alarm	
- AMID	
- Flight Leg	Toggles on/off the automatic
- DAPs in Menus	
- DAPs in Labels	To
- RR Main >	
- Direction Finder >	

Unit Settings submenu

This submenu can be used to change the units used in the plugin. Any changes to the settings are session- specific only, so they will be lost when exiting EuroScope.

- Altitude	Selects the units used for altitudes and vertical rates - Nautical (feet, feet per m
- Flight level	Selects the units for flight levels – only applicable with metric altitudes - Nau
- Distance	Selects the units used for distances - Nautical (nautical mile
- Speed	Selects the units used for speeds - Nautical (knots) - Metric

Local Settings submenu

This submenu allows changing some of the plugin's settings. Any changes to the settings are session- specific only, so they will be lost when exiting EuroScope.

- Vertical reference

Selects the pressure

- Used equipment codes

Selects whether to use or disregard the equi-

- ASSR codes

- Groundspeed

Selects whether to use pilot client reported ground speed or a plug

- Transfer confirmation

Selects when to displ

- CFL menu default value

Selects the default value for the CFL me

- FPCP inhibit

- STCA alert

- STCA alert sound

Selects which STO

- APW alert

- APW alert sound

Selec

- METAR source

- FPASD filter

Allows filtering of displ

RR Main submenu

- [] Rings On/Off

- Point

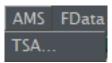
Sets the rings centerpoint. Either click on the radar screen or enter the desire

- Separation
 - Number
- [] Highlight
 - Step

Direction Finder submenu

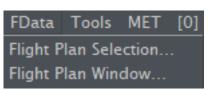
Not operational.

2.2.2 AMS menu



Opens the ??.

2.2.3 FData menu



Opens the ?? and ??.

2.2.4 Tools menu

2.2.5 Tools menu

- Flight Plan Lists > Opens the Flight Plan Lists submenu - CARD... Opens the ?? - SAP... Opens the ?? - Vertical Aid Window. . . Opens the ?? Opens the ?? - Message In... - Message Out... Opens the ?? Opens the CPDLC submenu - CPDLC > Opens the ?? - LAT/LONG...

Flight Plan Lists submenu

- [] List options bar	Toggles the display of list options on the Global Menu
- Sector List	Opens the Sector List
- [] Informed	Toggles the display of informed aircraft
- [] Concerned	Toggles the display of concerned aircraft
- [] Redundant	Toggles the display of redundant aircraft
- Load Factor List	Opens the ??
- ETWR List	Opens the ??
- <adep></adep>	ETWR List departure airports filter
- Uncont. List 1	Opens the ??
- <filter></filter>	Uncontrolled 1 List state filter
- <units></units>	Uncontrolled 1 List units filter
- Uncont. List 2	Opens the ??
- <filter></filter>	Uncontrolled 2 List state filter
- <units></units>	Uncontrolled 2 List units filter
- Lost List	Opens the ??
- Resectorisation List	Opens the ??
- <lfunc></lfunc>	Resectorisation List LFUNC filter
- Traffic Mgmt. List 1	Opens the ??
- <state></state>	Traffic Management List 1 flight plan state filter
- <ades></ades>	Traffic Management List 1 destination airports filter
- <via></via>	Traffic Management List 1 route points filter
- Traffic Mgmt. List 2	Opens the ??
- <state></state>	Traffic Management List 2 flight plan state filter
- <ades></ades>	Traffic Management List 2 destination airports filter
- <via></via>	Traffic Management List 2 route points filter

When enabled, the list options bar displays "Info Conc Redu Filter" on the right edge of the Global Menu. The first three toggle the respective settings for the Sector List and are colored with the appropriate color when enabled, and the last two

are displayed in "VFR" color when the corresponding Uncontrolled list is somehow filtered. Clicking on them opens the Flight Plan Lists submenu to change the filtering options. Left-clicking <filter> cycles through "ALL" (no filtering), "ON-CONTACT" (only tracks on-contact with anyone), "ON-CONTACT-PPOS" (only tracks on-contact with you) and "FREE" (only tracks in the free state). Left-clicking <units> opens a text entry box to enter a comma-separated list of aerodrome ICAO codes to filter the list. When entered, the list will display a flight only if one of the entered codes is its departure or destination, or the code is found in its scratchpad (OP-TEXT2).

Left-clicking <\frac{\text{ffunc}, <adep>, <ades> and <via> open text entry boxes to enter comma-separated lists for controlled ID's, ICAO codes and point names respectively to filter the affected lists. Left-clicking <state> toggles between "ALL" (no filtering), "SIMUL+TERM" (not started flight plans filtered), "NOTST+SIMUL" (terminated flight plans filtered) and "SIMUL" (not started and terminated flight plans filtered).

CPDLC submenu

- Microphone Check Opens the ??- Current Messages... Opens the ??- History Messages... Opens the ??

2.2.6 MET menu

- Messages... Opens the ??- QNH/TL Opens the ??

- [] VOR labels

2.2.7 (0)

Not implemented (always shows a zero value).

2.2.8 Info menu

- General Information... Opens the ?? - Document Viewer... Opens the ?? - NOTAM... Opens the ?? - Aerodrome... Opens the ?? - LFUNC Frequency Plan... Opens the ?? When holding <ALT>, - [] Airport labels Toggles airport labels selection - [] Fix labels Toggles fix labels selection - [] NDB labels Toggles NDB labels selection

text labels will be displayed for airports, fixes, NDBs and VORs when the mouse cursor is placed over them. When one or more of the categories in the Info menu is selected, only those categories will display the labels. The "Label" buttons open submenus to

Toggles VOR labels selection

select what information is shown on the corresponding labels. All the information is from the active sector file.

2.2.9 MSG menu

- Notepad... Opens the ??
- Personal Queue... Opens the ??
- ATC Messages... Opens the ??
- Prim Freq Messages... Opens the ??
- NAT Track Messages... Opens the ??

- Text notes > Opens the Text notes submenu

It is possible to insert text notes on the radar screen to act as reminders. They will stay fixed at the geographical coordinates they are inserted to, the coordinates defining the center point of the note.

When creating a note, a text entry field opens to enter the note text. When the [Enter] key is pressed, the note will be created at the current mouse cursor position.

The notes can be deleted one by one or all of them at the same time. When deleting one by one, the notes are boxed to display their click areas. Clicking on one will delete the note. Pressing the [Esc] key or selecting the "Delete..." menu item again will abort the operation.

Text notes submenu

Create... Creates a new text noteDelete... Deletes a single text noteDeletes all text notes

2.2.10 (x)

Shows the number of high priority messages in the personal message queue. These are critical failures in the plugin code. Open the Personal Queue Window to view the messages. The number is limited to 99, and is shown on "Global Menu Highlight" background when the window is not open.

2.2.11 (x)

Shows the number of low priority messages in the personal message queue. These are warnings about invalid data in the plugin data files. Open the Personal Queue Window to view the messages or see the Plugin Status submenu for more detailed information on the problem(s). The number is limited to 99, and is shown on "Global Menu Highlight" background when the window is not open.

2.2.12 STS menu

- Plugin Status > Opens the Plugin Status submenu

- Safety Nets Status... Opens the **??**

- Divergence Detection Status. . . Opens the **??**- MTCD Status. . . Opens the **??**

- CPDLC Default Status [ON/OFF] Toggles the CPDLC Default Status On/Off

- Runway In Use Opens the **??**

- Supervisory > Opens the Supervisory submenu

- RWY line display... Opens the **??**

Plugin Status submenu

Shows the version of the plugin as well as some information on the loaded data files. Each data file reports its state with one of the following indicators:

- OK File contains usable information and no faults

- NO DATA File not found or contains no usable information

- BAD DATA File contains invalid data (in "Warning" color)

Depending on the file, there are one to three of the following buttons available:

- Reload Reloads the data file

- View Displays the data in the file on the radar display

- Save (Areas) Saves a snapshot of the current area activation data

- Save set (Maps & MapsL) Saves a list of currently active radar screen specific maps

- Load set (Maps & MapsL) Loads a saved list of active screen specific maps

Left-clicking the Save button will save the currently set manual activation periods as well as the information if an area with automatic schedules is set to manual mode. The information is saved to the "TopSkyAreasManualAct.txt" file in the same folder as the plugin dll. If the file already exists, the plugin will ask for confirmation as the save operation will overwrite any existing data. Depending on the maps data file setup, the

display state of some or all of the maps may be specific to each radar screen. The Save set and Load set functions can be used to transfer the display state of these maps from one radar screen to another. Right-clicking the Reload button for Settings & SettingsL

has a special purpose. It opens a text entry box to type in a callsign whose settings should be loaded instead of the real login callsign. When entered, the callsign will be displayed next to the "Reload" button, and whenever a VATSIM callsign change is detected, an information popup is displayed to remind that the plugin settings are still forced to the manually entered callsign. This feature can be used for example to use settings for different positions on different EuroScope instances when providing top-down services, or to use settings for a specific position when logged in with an observer/staff/supervisor callsign. Clearing the entered callsign reverts to using the settings based on the actual login callsign.

Supervisory submenu

- Operations Rate... Opens the **??**

- Predicted Traffic... Opens the ??

2.2.13 RRxxx/Off

Opens the **??**. If the rings are selected on, "xxx" displays the distance between consecutive rings, otherwise "Off".

2.2.14 Mxxx-yyy

Displays the status of the filters. If any filter is enabled and Quick Look is not toggled on, the color of the text is "Global Menu Highlight". Only the altitude filter status is shown. "xxx" displays the Lower filter value and "yyy" the Upper filter value, in hundreds of feet.

2.2.15 S000-999

Not implemented (shows static values).

2.3 Track Presentation

The presentation of tracks consists of the following elements:

- Aircraft position symbol
- History dots
- Prediction line
- Track label, joined to the position symbol with a leader line

2.3.1 Colors

Most of the track presentation coloring depends on the flight sector state. For controlled flights (any IFR flight or a VFR flight in ASSUMED state), the colors are as follows:

State	Color	Condition
Unconcerned	"Unconcerned"	Track will not enter the active sector
Notified	"Concerned"	Track will enter the active sector (> 15 m
Coordinated	"Coordination"	Track will enter the active sector (< 15 m
Assumed	"Assumed"	Track is assumed
Transfer Initiated	"Assumed"	Track is being transferred to the next cont
Redundant	"Redundant"	Track has been transferred to the next controller but is still
An unconcerned	track can be high	lighted based on rules (a combination of departure
airport, route and a	rrival airport) def	fined in plugin data files. In this case it is drawn

with one of the three "Informed" colors.

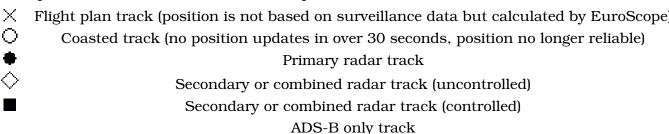
Coordinated tracks that have not departed yet will be shown as notified instead.

For uncontrolled flights (VFR flights not in ASSUMED state), the colors are as follows:

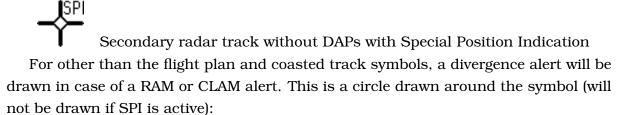
State	Color	Condition
On Contact	"Assumed"	Track is on-contact (a plugin custom state) with you
Free	"VFR"	Track is not assumed or on-contact with anyone
Otherwise	"Unconcerned"	

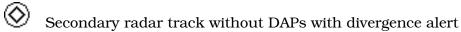
2.3.2 Aircraft position symbol

The position symbol is drawn at the latest known position of the aircraft. The color of the symbol is the flight sector color for an unselected track and "Track Highlight" for a selected one. A number of different symbols are available. To begin with, there are basic shapes that tell what kind of track is in question:



An indication of an SPI (transponder ident) can be added to the secondary radar and ADS-B symbols. It draws a cross over the symbol and prints the text "SPI" above and to the right of the symbol:





2.3.3 History dots

The history dots show the previous positions of the track. The number of displayed dots can be changed via the **??**. The color of the dots is the flight sector color for an unselected track and "Track Highlight" for a selected one. History dots are not displayed for flight plan tracks.

2.3.4 Prediction Line

The prediction line draws the predicted ground track of the aircraft, based on its current track and ground speed. It is a two-color line, starting with "Track Default" at the position symbol and then alternating with "Track Highlight" with every segment representing one minute of flying time. The length of the prediction line can be changed for all tracks via the Track Control Window, or for a single track via the Prediction Line menu. The example below shows a selected track with 5 history dots and a 3-minute prediction line. Prediction lines are not displayed for flight plan tracks.



2.3.5 Track label

There are four types of track labels that can be displayed: Standard, Reduced, Extended and Uncorrelated. In addition, each label except the extended one has an unselected and a selected state, the selected state being shown when the mouse cursor is over the label. Basically, the Standard label is shown for aircraft that are in or will enter

the active sector and the Reduced label for aircraft that will not enter the active sector. The Extended label can be opened from the Standard or Reduced label and stays open as long as the cursor is within the label area. The Uncorrelated label is shown for radar tracks that aren't correlated with a flight plan. Refer to your setup specific documentation for detailed descriptions of the track labels.

2.4 Flight Leg

The Flight Leg displays the aircraft's planned track in one-minute steps. Each one-minute-long part of the path is colored according to the results of the MTCD and SAP

"Urgency FL" MTCD and/
"Warning FL" MTCD and

processing. The following colors are possible: "Potential FL"

"Potential FL" MTCD pote

"Information FL" MTCD and/or SAP processing ava

"Flight Leg" No MTCD or SAP processing available.

If the aircraft has an assigned heading or is not following its route, the predictions

only go up to 10 minutes and assume the aircraft continues on its present ground track. In this case the predicted track is shown as a dashed line when the flight leg is displayed. The Flight Leg is displayed by clicking on various track label and list

items depending on the setup and is either automatically removed from display when the mouse cursor leaves the label area or must be manually toggled off, depending on the function that was used to display it. The label that's shown on each route point includes the following predefined fields



Estimated Time Over the point

Top of Climb

Top of Descent

2.5 Track Label Menus

These menus are opened from track label fields or flight lists. Except for the confirmation windows, they are closed automatically when a menu option is chosen or the mouse cursor leaves the menu area. Menu items shown with (X) represent an item that has an activated and a deactivated state. With the item activated, the item name is shown prefixed with the letter "X". The mouse wheel can be used to scroll the selection lists in the menus.

Many of the menus have a default item or value, displayed with inverse video. The menu usually opens so that the default value is located under the mouse cursor for easy selection. Some menus contain items that open folders within the menu. They show a filled triangle before the item name (upright if the folder is closed, inverted if the folder is open). The "More" folder is opened automatically when the mouse cursor is placed over it or if the default item is in the "More" folder, other folders must be left-clicked to open.

2.5.1 Callsign menu

Controlled Track

FIN535
Callsign
Assume
Transfer
Trf & Release
ROF
Freq
Highlight
S-Highlight
PRL
Hold
▼ More
Manual Transfer
Inbound Est
HOP
Mark
XCouple
FPL
Irregular
Start CPDLC
VCI
Squawk Ident
CPDLC Free Text
On Contact
Free
Missed App

Assume Assumes track Refuse Refuses the incoming transfer Transfer Initiates a transfer to the next sector Trf & Release Opens the ?? **ROF** Sends a ?? (X)Freq Toggles the Freq indicator (X)Highlight Toggles the Callsign highlight (X)S-Highlight Toggles the Callsign+AFL fields highlight **PRL** Opens the ?? "Hold" opens the ??, "XHold" cancels a given holding cl (X)Hold Shows additional less frequently used options **▼** More Manual Transfer Opens the ?? (X)Inbound Est Toggles the "Inbound Est" manual alert Initiates a ?? **HOP** (X)Mark Toggles the Mark indicator (X)Couple Uncorrelates/correlates the flight plan FPL... Opens the ?? Toggles the "Irregular" manual alert (X)Irregular Starts/Ends CPDLC connection with the aircraf Start/End CPDLC VCI Opens the ?? Squawk Ident Sends a "SQUAWK IDENT" CPDLC message to the ai CPDLC Free Text Opens the ?? Free Releases track On Contact Sets track in On-Contact state*

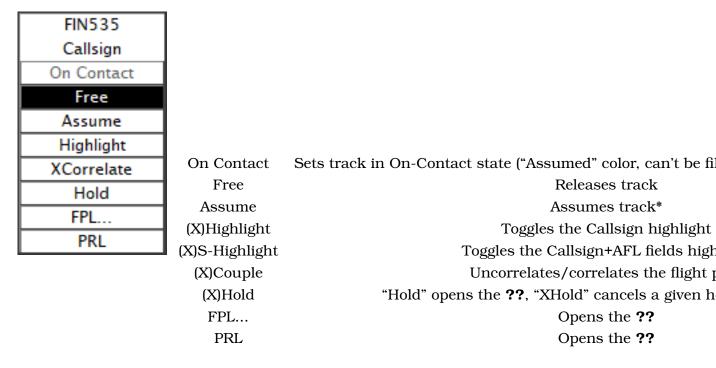
(X)Missed App

Toggles the "Missed App" manual alert

Besides the manual alerts, none of the selectable toggle options in this menu will be transmitted to other controllers, but the "Mark", "Freq" and highlight selections will be seen in your other EuroScope instances. A holding clearance is transmitted to the next controller when transferring the track. To correlate a flight plan, first click on the "Correlate" item, and then click on the radar position symbol of the desired radar track.

*Clicking "On Contact" for a track with "Y" or "Z" flight rules will also automatically change the flight rules in the VATSIM flight plan to VFR in order to make it uncontrolled. The displayed flight rules are not affected

Uncontrolled Track



*Clicking "Assume" for a track with "Y" or "Z" flight rules will also automatically change the flight rules in the VATSIM flight plan to IFR in order to make it controlled. The displayed flight rules are not affected.

Uncorrelated Track

A1206
Callsign
Correlate
Create APL
PRL

Correlate Create APL

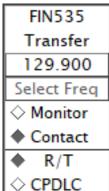
PRL

Correlates the radar track with the next clicked "Callsign" field

Opens the ??

Opens the ??

2.5.2 Transfer menu



For CPDLC connected aircraft, the menu contains options related to the transfer. Left- clicking on the frequency button initiates the transfer (and sends the CPDLC message if selected).

"Monitor" / "Contact" select which of the two CPDLC message types will be sent.
"R/T" / "CPDLC" select whether the transfer instruction is given via radio or as a CPDLC message.

2.5.3 Transfer Confirmation Window



If an aircraft has a defined XFL value and hasn't been cleared to it (CFL is not equal to XFL), attempting to transfer the aircraft will open a Transfer Confirmation Window in the middle of the radar screen. While the window is open it will block all other attempts to click on items elsewhere on the radar screen. Either click on "Transfer" to transfer the aircraft regardless of the situation, or "Cancel" to cancel the transfer.

2.5.4 Transfer & Release menu

FIN535
Trf & release
Climb
Descent
Turn
Full

The Transfer & Release menu allows specifying a release condition for a track to be transferred. The transfer is initiated after selecting the desired condition (climb, descent, turn or full). The release will be shown on line 0 of the track label (C for climb, D for descent, T for turn and F for full). The transferring controller

will see the label item until the track becomes unconcerned. The receiving controller will see the item for 3 minutes after the track is assumed.



For CPDLC connected aircraft, the menu contains options related

to the transfer:

"Monitor" / "Contact" select which of the two CPDLC message types will be sent.

"R/T" / "CPDLC" select whether the transfer instruction is given via radio or as a CPDLC message.

The "Trf & Release" option will show the release condition on the downstream side only if the next controller is using this plugin, in other cases the transfer will be shown as a normal transfer.

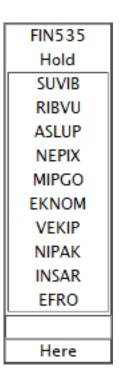
2.5.5 Request On Frequency message

The ROF message can be used to send a request to the controller currently tracking an aircraft to transfer it to your frequency. For the message to succeed, you must be seen as the next controller for the tracking controller. When sent, the text "ROF" is displayed in the track label on the tracking controller's screen.

The "ROF" message is a feature specific to this plugin. It is an experimental feature and is not guaranteed to work all the time. When you send the message, check that it's sent properly.

- 1. A successfully sent message will be displayed in the ??
- 2. If there is an error or the message fails to go through, a message will be put into the ??

2.5.6 Hold Menu



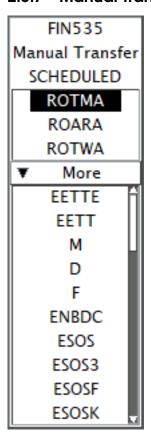
The Hold menu allows you to enter a holding clearance (add the aircraft to the holding list). It displays for selection the points in the aircraft's route that are ahead of its current position.

Left-clicking the empty box below the waypoint list opens a text entry box to enter any holding point name.

Left-clicking "Here" enters the present position coordinates as the holding point.

The holding point is automatically sent to your other EuroScope instances with a small delay and can be sent to other controllers by pushing the flight strip as the information is stored there.

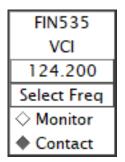
2.5.7 Manual Transfer Menu



The Manual Transfer menu allows transferring the aircraft to any controller. In the SCHEDULED list are the controllers that are in the current sector sequence sorted in the order the aircraft is planned to enter the controllers' sectors, with the next controller being the default item.

When opened, the "More" list displays all the other controllers for selection. Click on a controller ID to start the transfer. For CPDLC connected aircraft, clicking on a controller ID opens the **??**

2.5.8 VCI Menu



Available only for CPDLC-connected aircraft and when more than one frequency has been set up by the controller, the VCI menu allows sending a CPDLC "contact" or "monitor" message without initiating a transfer.

The first button displays the primary frequency, left-clicking it will send the message with that frequency.

Left-clicking the "Select Freq" button will open a text entry box to enter any other frequency. If a valid frequency (set up as XMT TXT in EuroScope's Voice communication setup dialog) is entered, the message will be sent with that frequency.

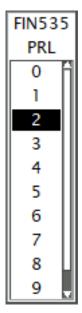
"Monitor" and "Contact" are used to select the type of message to be sent.

2.5.9 CPDLC Free Text Menu

The CPDLC Free Text menu is used to send a free text CPDLC message to the aircraft. The menu contains pre-defined messages from a data file. Left-clicking on a message sends it.

The menu closes when a message is sent or the cursor leaves the menu area.

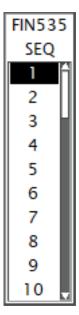
2.5.10 Prediction Line Menu



The Prediction Line menu allows displaying a PRL with a specific length for each aircraft even if the PRL selection is off in the Radar Menu.

The default value is the set PRL value if available, otherwise the PRL length value from the Track Control Window. Changing the PRL length value in the ?? or changing the PRL setting in the ?? will delete all manually set PRL lengths.

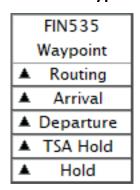
2.5.11 Sequence Number Menu



This menu is used to set an arrival sequence number. Values from 1 to 50 are available.

The sequence number will not be transmitted to other controllers except the next controller (during transfer) unless the flight strip is manually sent.

2.5.12 Waypoint Menu



▲ Routing Opens the "COPN point" or "COPX point" submenu (EuroScope default item)

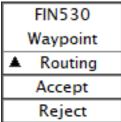
▲ Arrival Opens the "Assign STAR" submenu (EuroScope default item)

▲ Departure Opens the "Assign SID" submenu (EuroScope default item)

▲ TSA Hold Opens the TSA Hold submenu (not available if a holding clearance is active)

▲ Hold Opens the Hold submenu (not available if a TSA holding clearance is active)

This menu gives access to functions related to the route of the aircraft. It is used to assign direct-to clearances, departure and arrival routes, holding clearances, and to coordinate the sector entry/exit point.



When an entry or exit coordination has been received, the menu

opens looking like this instead. The options are:

 \blacktriangle Routing $\:\:$ Opens the "COPN point" or "COPX point" submenu (EuroScope default item)

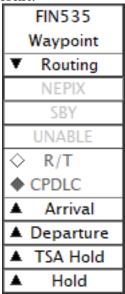
Accept Accepts the coordination
Reject Rejects the coordination

The submenu opened with "Routing" offers the same possibilities to accept or reject the coordination, but also the possibility to counter-propose a different point.

FIN530	
١	Waypoint
A	Routing
	Accept
	Reject
•	R/T
\Diamond	CPDLC

When the aircraft is CPDLC-connected and the coordination is an exit coordination, the menu offers a choice between "R/T" and "CPDLC". The chosen option decides how an accepted coordination is communicated to the aircraft.

With "CPDLC" selected, when "Accept" is clicked, in addition to the coordination being accepted, a "PROCEED DIRECT TO <point>" CPDLC message is sent to the aircraft.



When a direct-to downlink request has been received, the menu can be used to answer it.

Point name Sends a "PROCEED DIRECT TO <point>" CPDLC message

SBY Sends a "STANDBY" CPDLC message UNABLE Sends an "UNABLE" CPDLC message

The "R/T" / "CPDLC" selection is fixed to "CPDLC".

Whicking the point name will set the direct-to clearance without coordination

When there is no request in process and the aircraft has a direct-to point set, the menu can be used to send the clearance via CPDLC. In this case the menu opens like this except without the "SBY" and "UNABLE" buttons. Clicking the point name will send the "PROCEED DIRECT TO <point>" CPDLC message.

TSA Hold Submenu

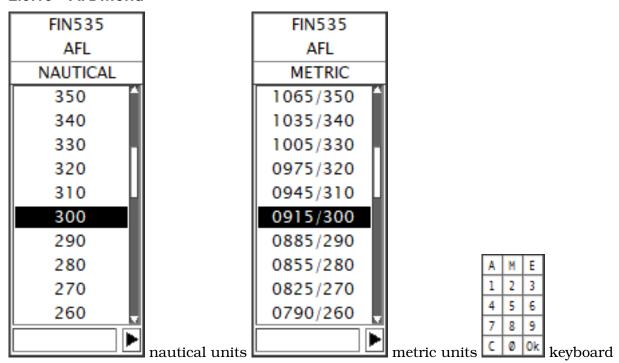
The TSA Hold submenu allows you to enter a clearance to enter an active military area. It displays the active and preactive TSA type areas. If a clearance already exists, the menu will only give the option to remove it with the "XHold" item.

The clearance is automatically sent to your other EuroScope instances with a small delay and can be sent to other controllers by pushing the flight strip as the information is stored there. A TSA hold clearance will exclude the aircraft from all APW and SAP processing.

TSA Hold Submenu

If a holding clearance already exists, the menu will only give the option to remove it with the "XHold" item. See **??** for other details.

2.5.13 AFL Menu



This menu can be used to set the AFL value for aircraft that don't have an altitude reporting transponder. The default value is the previously set manual AFL value if set, otherwise the CFL value.

By default, the menu (as well as the AFL label item) is always showing nautical units, regardless of the system units or the selected units for the aircraft. If this behavior is selected off, the list units can be toggled with the "NAUTICAL" / "METRIC" item. There are three ways to set the AFL using this menu:

- Clicking a level value in the list
- Clicking the text entry box below the level list and entering the value there
- Clicking the right-pointing triangle to open a keyboard that can be used to type in the value using the mouse. "C" clears the entry and "Ok" sets the value.

Entering a metric value will also set the aircraft's units to metric; a nautical value will set nautical units.

The accepted manual level entry formats for the AFL, CFL and RFL menus are as follows ("n" is a number):

"Annn" or "nnn"

"Mnnnn" or "nnnn"

Altitude in hundreds of feet

"Mnnnn" or "nnnn"

Altitude in tens of meters

"Altitude in meters

Altitude in meters

Height in hundreds of feet above aerodrome elevation

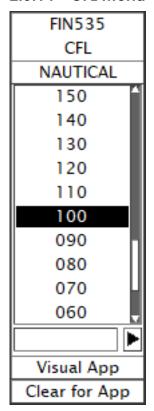
"Ennnn"

Height in tens of meters above aerodrome elevation

Height in meters above aerodrome elevation

Regardless of whether the entered value is in meters or feet, and altitude or height, it will be converted to altitude in feet and the result is then rounded to the nearest 100 feet.

2.5.14 CFL Menu



In the track label the CFL menu is combined with the COPN altitude coordination menu and the CFL menu opens only when the aircraft is assumed. The default value is by default the XFL, but it can be changed to the current CFL or the RFL in the Local Settings menu. Altitudes up to the transition altitude are prefixed with "A" in the

nautical units list and with "M" in the metric units list. QFE heights are prefixed with "E" in both lists. Selectable values are from 500ft to FL510 with 500ft intervals up to the transition altitude, then 1000ft intervals up to FL410 and 2000ft intervals above it.

"Visual App" / "VA" and "Clear for App" / "CA" set the corresponding approach clearances.

The list units can be toggled with the "NAUTICAL" / "METRIC" item. There are three ways to set the CFL using this menu:

- Clicking a level value in the list or one of the two approach clearance items
- Clicking the text entry box between the level list and the approach clearance item and entering the value there
- Clicking the right-pointing triangle to open a keyboard that can be used to type in the value using the mouse. "C" clears the entry and "Ok" sets the value.

Entering a metric value will set the aircraft's units to metric; a nautical value will set nautical units.

The aircraft's RFL is displayed in the place of the "NAUTICAL"/"METRIC" item with format "R<RFL>". Left-clicking the button still has the same effect (changes the displayed units).

played units).
FIN535
CFL
NAUTICAL
370
360
350
340
330
320
310
300
290
280
•
SBY
UNABLE
♦ R/T
◆ CPDLC
Visual App
Clear for App

For CPDLC connected aircraft, the menu contains "R/T" and "CPDLC" options to select whether a level clearance is to be sent via radio or as a CPDLC message. If a level request has been received from the aircraft, there are also "SBY" and "UNABLE" buttons to send those messages as a reply. - When a level request downlink has been received, the "R/T" option is deselected and cannot be selected. The request must be replied to using CPDLC. - When a level clearance uplink has been sent, the "CPDLC" option is deselected and cannot be selected. If a new level clearance must be sent before there is an answer to the uplink, it must be given via radio (doing so also closes the open uplink message).

2.5.15 RFL Menu

he RFL menu allows setting the requested flight level. The operation is similar to the AFL and CFL menus. The function for the "NEXT" button is not implemented.

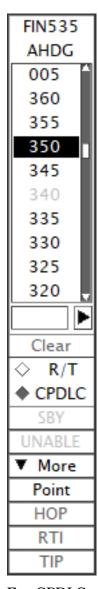
2.5.16 AHDG Menu

This menu includes items to set or clear an assigned heading or a direct route and to send a HOP. The initially highlighted heading value will be the closest one to the assigned heading if the aircraft has one, otherwise the closest one to the aircraft ground track (or the departure runway heading if the menu is opened from the DEP list). Clicking on a heading value will set it as the assigned heading. The assigned heading can also be set by typing it into the entry box, using the pop-up keyboard or by using the AHDG vector.

"Clear" removes an assigned heading or a direct route. For CPDLC connected aircraft, it sends the "RESUME OWN NAVIGATION" CPDLC message if the "CPDLC" option is selected.

"Point" lets you pick a direct-to point from the radar screen. Left-click on any point to set it as the direct-to point (available points are VORs, NDBs and waypoints, in that priority order). Pressing the [Esc] key or clicking on any clickable data field will abort the operation.

"HOP", "RTI" and "TIP" are coordination functions (see below for more information). To use them, first click on the function's button and then select the desired value from the list (for HOP also "Point" is available).



For CPDLC connected aircraft, the menu contains additional buttons:

"R/T" and "CPDLC" select whether a heading/direct-to clearance is to be sent via radio or as a CPDLC message.

- When a heading request downlink has been received, the "R/T" option is deselected and cannot be selected. The request must be replied to using CPDLC.
- When a heading/direct-to clearance uplink has been sent, the "CPDLC" option is deselected and cannot be selected. If a new heading/direct-to clearance must be sent before there is an answer to the uplink, it must be given via radio (doing so also closes the open uplink message).

"SBY" and "UNABLE" send the corresponding answers to a downlink heading request message.

Clicking a point on the radar screen will set the direct-to clearance without coordination

2.5.17 Handover Proposal (HOP)

A Handover Proposal can be used to propose non-standard transfer parameters (AHDG/Direct-to and ASP) to the next sector. For the receiving controller a HOP is identified by coloring the callsign data field with "Proposition" color in the label. For the sending controller the Callsign field remains "Assumed" color and the Sector Indicator field is shown in "Proposition" color. Additionally, if there are proposed parameters they are also colored "Proposition" in both controllers' labels.

There are three ways to answer a HOP and all of them involve accepting all proposed parameters. If one or more parameters are not acceptable, coordination must be done to find acceptable parameters or to revert to standard ones. The available ways to accept the proposed parameters are:

Callsign menu -> "Assume" Assumes the track
Callsign menu -> "ROF" Sends a Request On Frequency message
Combined Transfer menu -> "Accept" Sends an Accept message

If the parameters are unacceptable to the receiving controller, the sending controller has the possibility to modify or clear them using the appropriate menus, or to cancel the whole HOP by assuming the track.

Watton will only be shown correctly for controllers using this plugin. To other controllers it will be shown as a normal transfer without any special coloring of any data fields. This combined with the three possible ways to answer the HOP require the sending controller to pay special attention to the track to see what the result is.

Warhing is sent to a manually selected controller, the next controller selection will be reset to the automatically calculated controller when an "ROF" or "Accept" answer is received. The correct controller must then be manually selected again for the transfer.

2.5.18 Request Tactical Instructions (RTI) / Tactical Instructions Proposal (TIP)

Certain tactical data (AHDG, ASP and ARC) can be coordinated using the RTI and TIP functions. Their only difference is that RTI is used for requesting the parameters when the aircraft is inbound to your sector and your sector is the next in the sector sequence, and TIP for propose the parameters to the next sector when the aircraft is assumed. Contrary to the HOP function, these coordinations can be refused using the system, and they do not offer the aircraft for transfer.

When sent, the RTI/TIP is displayed on both controllers' screens by displaying the requested parameter on line 0 of the track label in "Proposition" color.

To answer the RTI/TIP, left-click on the requested parameter shown above the track label or the corresponding message in the ??. This will open the ??.

The "RTI" and "TIP" messages are features specific to this plugin. They are experimental features not guaranteed to work all the time. When you send these messages, check that they are sent properly.

- A successfully sent message will be displayed in the **??** and the requested parameter being shown above the track label
- If there is an error or the message fails to go through, a message will be put into the ??.

2.5.19 AHDG Vector

The AHDG vector is another way of setting an assigned heading for an aircraft. To use the vector, left-click on the radar position symbol of the aircraft. This will start drawing the vector. When you're satisfied with the heading value, left-click again to set it. Right-clicking will abort drawing the vector.

When the cursor is over a known point (VOR, NDB or waypoint), the name of that point is displayed instead of the heading value, and left-clicking will set a direct-to clearance to that point. To temporarily disable the known points functionality, keep the <ALT> key pressed while using the vector.

2.5.20 ARC Menu

F	IN535
	ARC
10	00ft/mn
	50
	45
	40
	35
	30
	25
	20
	15
	10
	05
	-
	+
Resume	
₹	More
RTI	
TIP	

The ARC menu allows assigning a rate of climb or descent to the flight plan. Selectable rates are 500-5000 ft/min (displayed in 100's of ft/min), or 5-25 m/s. The menu units are always the same as the units used for the aircraft in general.

Left-clicking on a value assigns it. An assigned rate can be cleared by selecting the "Resume" item.

By default, the "+" option is selected, meaning that the clearance is a minimum rate of climb or descent. Deselecting the "+" makes the clearance an exact rate, and selecting the "-" option makes the clearance a maximum rate.

For "RTI" and "TIP" see the ??.

Warring t and maximum rate clearances are a feature specific to this plugin (the additional information is stored in the flight strip). To controllers not using the plugin, all assigned rate clearances will only show the rate value. Assigned rate clearances given by controllers not using the plugin will be displayed as minimum rate clearances.

2.5.21 ASP Menu

FIN535	FIN535			
ASP	ASP			
KNOTS	MACH			
N350	M084			
N340	M083			
N330	M082			
N320	M081			
N310	M080			
N300	M079			
N290	M078			
N280	M077			
N270	M076			
N260	M075			
-	□ -			
□ +	□ +			
Resume	Resume			
▼ More	▼ More			
HOP	HOP			
RTI	RTI			
TIP	TIP			

☐ The ASP menu allows setting an assigned speed or Mach

number. The default value will be the closest value to the assigned one if set, otherwise the plugin will suggest the closest value to the aircraft's present speed based on the ground speed (zero wind will be assumed). The menu will initially open in IAS mode if the aircraft's CFL is below the IAS/Mach altitude value defined in the Local Settings (FL275 by default), and in Mach mode if above it. The selectable values range from 100 to 400 knots and from Ma0.50 to Ma1.00.

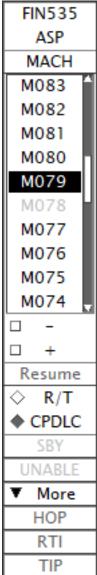
The "+" and "-" options can be used to specify the clearance as a minimum/maximum speed.

The "Resume" item clears an assigned value. For CPDLC connected aircraft, it sends the "RESUME NORMAL SPEED" CPDLC message if the "CPDLC" option is selected.

For "HOP", "RTI" and "TIP" see the ??.

The "Resume" button below the list is replaced by a "HS" button. Clicking it will set a clearance for "high speed", displayed as "HS" in the ASP label field (see track label definition in the local setup documentation for how to clear a value). In other setups a "high speed" clearance will show a value of 999 knots. For CPDLC connected aircraft, it sends the "NO SPEED RESTRICTION" CPDLC message if the "CPDLC" option is selected. The "Resume" button can be found at the bottom of the "More" list.

Entering a metric value will set the aircraft's units to metric; a nautical value will set nautical units.



For CPDLC connected aircraft, the menu contains additional buttons: R/T" and "CPDLC" select whether a speed clearance is to be sent via radio or as a

CPDLC message.

• When a speed request downlink has been received, the "R/T" option is deselected and cannot be selected. The request must be replied to using CPDLC.

• When a speed clearance uplink has been sent, the "CPDLC" option is selected and cannot be deselected. If a new speed clearance must be sent before there is an answer to the uplink, it must be given via radio (doing so also closes the open uplink message).

SBY" and "UNABLE" send the corresponding answers to a downlink speed request.

Warningimum and maximum speed clearances are a feature specific to this plugin (the additional information is stored in the flight strip). To controllers not using the plugin, all assigned speed clearances will only show the speed value. Assigned speed

clearances given by controllers not using the plugin will be displayed as exact speed clearances.

2.5.22 ASSR Menu

FIN535					
	SSR				
120	1206				
1	2	3			
4	5	6			
7	8	9			
С	0	Ok			

The ASSR menu allows assigning an SSR code to the flight plan. To enter a new code, type it by left-clicking the numbers. "C" clears the entered value and "Ok" assigns the code if it's a valid one. To get an automatically assigned code, clear the value and then left-click on "Ok" with the entry box left empty.

Depending on the configuration, the assigned code may be a mode S conspicuity code. To force a discrete code, make a new assignment – either manual or automatic. If an automatic assignment is requested for a flight with the conspicuity code currently assigned, the new assignment will be a discrete code.

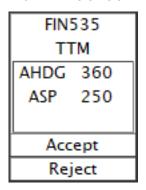
2.5.23 Combined Transfer Menu

FIN535
СТМ
none
none
none
Accept

The Combined Transfer menu displays the proposed transfer parameters for a HOP. It is opened by clicking on the AHDG, ASP or COPN/COPX items in the track label or flight list, or the list row displaying the HOP message in the **??**.

From top to bottom, the displayed values are the direct-to point, speed/Mach value, and the assigned heading value. If one or more of them are not proposed, the value will be replaced by the string "none" (the image above shows the menu for a HOP without any proposed parameters). Clicking on "Accept" will send a message to the upstream controller that the proposed parameters, if any, are all acceptable.

2.5.24 Tactical Transfer Menu



The Tactical Transfer menu is used to accept, reject or apply tactical data (AHDG, ASP and/or ARC). It is opened by left-clicking on a proposed or accepted parameter in the track label. The menu displays all proposed ("Proposition" color) and accepted (sector state color) values.

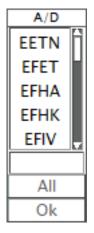
Clicking on "Accept" will accept all proposed values and "Reject" will reject them. The menu is then closed.

Note that the menu displays both sent and received coordinations, but you can naturally only accept/reject the received ones and apply values for aircraft that are assumed.

Once a value is accepted, the respective label field (e.g. AHDG) will be colored "Information" until the value is set to the accepted one.

All tactical data coordinations (also any rejected ones) can be viewed in the **??**, but they cannot be answered or applied there.

2.5.25 Aerodrome Menu



The Aerodrome menu is used to select the aerodrome(s) for aerodrome related windows and functions. The list contains all aerodromes with runways defined in the active sector file. To select an aerodrome, left-click on it or type its identifier into the text entry box below the list.

Selection of more than one aerodrome is possible when the menu was opened from the **??**. In this case the "All" button is available and clicking on it will select all the aerodromes in the list.

Clicking on "Ok" will confirm the selection(s) and close the menu.

2.5.26 NPT Menu



The NPT menu is used to answer a direct-to downlink request using CPDLC. The menu contains three options:

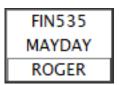
Point name Sends a "PROCEED DIRECT TO <point>" CPDLC message

SBY Sends a "STANDBY" CPDLC message UNABLE Sends an "UNABLE" CPDLC message

The menu closes when an option is selected or the cursor leaves the menu area. If the aircraft cannot be cleared direct to the requested point but to another one, the request must be answered with "UNABLE" and a separate direct-to clearance must be given.

Clicking the point name will set the direct-to clearance without coordination

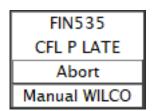
2.5.27 CPDLC Emergency Acknowledgement Menu



When a CPDLC emergency message has been received, this menu is used to respond to it (if applicable), and then acknowledge the situation. When a reply is required, the menu button will read "ROGER". Left-clicking on it will send the "ROGER" CPDLC message and close the menu. When opening the menu again (or when a reply was not required), the button reads "Ack". Left-clicking on it will acknowledge the emergency.

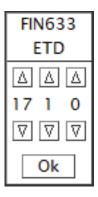
The menu is closed when the "ROGER"/"Ack" button is clicked or the cursor leaves the menu area.

2.5.28 CPDLC Pilot Late Acknowledgement Menu



When there is no answer to a CPDLC uplink clearance, this menu can be used to resolve the situation. "Abort" discards the uplink and "Manual WILCO" simulates reception of a WILCO message.

2.5.29 Time Menu



The Time menu is used to set/change the time value for ATD, EOBT, ETD and SLOT fields. Default values are:

ATD Current time
EOBT Current time
ETD Current field value

SLOT Current field value if any (ATD if different from ETD), current time otherwise The up/down arrows are used to change the value, "Ok" sets the time.

2.5.30 Departure Sequence Menu



The DSQ menu is used to select a specific departure sequence number to a flight. The list includes the possible numbers, and the current number is highlighted. Left-clicking on a number sets it, "Clear" removes the flight from the departure sequence.

The Nober arture sequence number is only stored locally, it is not sent to other controllers or even to other Euro Scope instances.

2.6 Windows

The plugin includes a number of windows that are discussed in this chapter. All windows have the following common features:

- Dragging the title bar using the left mouse button will move the window
- Dragging the box in the bottom right corner with the left mouse button will resize the window
- Left-clicking the top right corner will close the window
- Left-clicking the title bar will position the window on the top of other windows
- Right-clicking the title bar will position the window below other windows

While resizing the windows always starts from the bottom right corner, it is also possible to resize the window to the direction of the top and/or left edges. To do this, continue dragging the bottom right corner until the cursor goes past the top or left edge. As all windows have a defined minimum size, nothing will seem to happen once you reach the minimum size until the cursor crosses the opposite edge, but then the resize operation will continue normally.

Some windows contain scrollbars to select values or change the items that are displayed:

- Dragging a scroll bar slider using the left mouse button will move the slider
- Left-clicking on the scrollbar background area outside the slider will move the slider by a predefined amount (in list windows, the view will be scrolled by the number of visible items)
- Right-clicking on the scrollbar background area outside the slider will position the slider to the clicked position
- Left-clicking on the arrow at the end of the slider will scroll the list by one line
- The mouse wheel can be used to scroll some scrollbars (most of the ones that have defined steps for scrolling, i.e. those with the arrows at the ends)

Other window-specific mouse function areas are explained below. All functions use the left mouse button unless otherwise specified. For each window, the way(s) to open it are listed below the chapter title.

2.6.1 Radar Menu

<aLT> + Right-click anywhere on the radar screen background

☐ Radar Menu
■ Vector On/Off
QDM
SEP
☐ Quick Look
Maps
Track Control
View
Range 350
Altitude Filter OFF
SSR Filter OFF
CJI Filter OFF
LAT/LONG
Find Track
☐ Scale Marker
☐ Direction Finder

Radar Menu

Toggles keeping the menu permanently displayed

Vector On/Off Toggles all prediction lines on/off

QDM Starts a new QDM vector

SEP Starts a new Minimum separation tool

Quick Look Toggles function to bypass all filters and show all track labels

Maps... Opens the Maps Window

Track Control. . . Opens the Track Control Window

View... Opens the View Window

Range XXX Opens the Zoom Window (XXX = distance: center -> right edge)
Altitude Filter X... Opens the Altitude Filtering Window, displays the filter status
SSR Filter X...

CJI Filter X... Opens the CJI Filtering Window, displays the filter status

LAT/LONG... Opens the Cursor Lat/Long Window

Find Track Not implemented

Scale Marker Toggles the Scale Marker on/off

Direction Finder Toggles the Direction Finder position circles or lines on/off The Radar Menu closes when a selection is made or the mouse cursor leaves the menu area (unless the "Radar Menu" option is selected on).

For all the filters, it is only possible to filter out unconcerned tracks. Aircraft with transponder codes 7500, 7600 and 7700 and tracks with an active STCA, MSAW, APW or DUPE alert are also excluded from filtering. If a filter is active, the filter title in the Radar Menu will be shown in "Selected" color.

2.6.2 QDM Vector

To draw a new QDM vector:

- Left-click on the "QDM" menu item
- Left-click on the desired start point (radar track or fixed position)
- Left-click on the desired end point (radar track or fixed position)

The vector's data label is located at the end of the line. The available click spots for a radar track are the radar track position symbol and all its label items that have a mouse function. The line end positions will attach to defined points more easily than for a random position (there is a small click area centered on the defined points). The defined points are the following, and are searched in this order:

- Radar track position symbols
- VORs in the active sector file
- NDBs in the active sector file
- Fixes in the active sector file
- Airports in the active sector file

Right-clicking will abort drawing the vector. To remove a QDM vector:

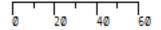
• Right-click on either end point of the line (midpoint of the line for lines between two radar tracks)

To adjust a QDM vector:

- Left-click on either end point. The selected end of the line will then attach to the mouse cursor.
- Left-click on the new desired end point (radar track or fixed position)

2.6.3 Scale Marker

Radar Menu -> [] Scale Marker



Displays a range scale in the bottom right corner of the radar screen.

2.6.4 Minimum Separation Tool

The minimum separation tool displays the predicted minimum lateral separation between two radar tracks within the next 30 minutes, assuming both of them maintain their present ground tracks and speeds. Lines are drawn from the tracks' present positions to the positions where the tracks are predicted to be at the time of the minimum separation.

To draw minimum separation lines between two radar tracks:

- Left-click on the "SEP" menu item
- Left-click on the first radar track
- Left-click on the second radar track

Right-clicking will abort drawing the lines. The available click spots for a radar track are the radar track position symbol and all its label items that have a mouse function.

The minimum separation distance is by default displayed near the end of one of those lines. If the tracks are not converging, the lines will be drawn with an offline-defined length, and the label will display "DIV".

7 sets of lines can be simultaneously drawn (plus one from the CARD). When at least one set is drawn, a SEP List Window is opened:



The window lists the tracks, the minimum predicted separation, the time to the minimum separation, the line color and a locked/unlocked indicator for each set of lines. To remove the minimum separation lines:

- Left-click on the colored box for that set of lines in the SEP List Window
- Right-click on a line's end point
- Close the SEP List Window (this removes all minimum separation lines)

The lines will be automatically removed if one of the tracks is no longer available, or for unlocked lines, if the tracks start to diverge. If the tracks are diverging at the time the lines are created, they will be automatically locked.

To lock/unlock a set of lines:

• Left-click on the box right of the color indicator for that set of lines to toggle the locked/unlocked status. For a locked set of lines, the box will be filled.

To display vertical separation information on the lines:

- Right-click on the colored box for a set of lines to enable vertical separation display.
- Right-click again to hide the vertical separation labels
- Right-click once again to disable the vertical separation display

The letter "V" is shown inside the box when activated ("v" when labels have been hidden), and on both lines, two points are displayed, the first showing the point where the tracks' vertical separation is calculated to become smaller than an offline-defined value, and the second the point after that where it is calculated to become greater.

The calculation is done using the tracks' current vertical speeds.

- The vertical separation labels, when displayed, are similar to the minimum separation label but prefixed with "V".
- If one or both points are beyond the minimum separation point, their calculation is extended forward up to an offline-defined time value.
- If a point is already passed or beyond the maximum displayed time, it will not be drawn.
- If the end point is beyond the maximum displayed time a line will be drawn using " $C_{Sep_Vert_J}$ color from the CPA to the end point or the maximum displayed time which ever is earlier. If the tracks are yields played left of the minimum separation label.

2.6.5 Airspace Management Window

AIRSPACE MANAGEMENT									
Start date/t	time								
Name	Map Text	Start Date	Start Time	End Date	End Time	Lower	Upper	Auto	User
D65	065	221013	00:00	221013	23:59		10		
D28A	D28A	221013	03:00	221013	22:59		33	М	
LER86A	LER86A	221013	06:00	221013	18:30		450	A	MIL
LER86B	LER86B	221013	06:00	221013	18:30	50	245	A	MIL
LER86C	LER86C	221013	06:00	221013	18:30	245	450	A	MIL
063-2021	063-2021	221013	07:00	221013	18:00		15	A	
068-2021	068-2021	221013	07:00	221013	22:59		20	A	
AMENDOEIRA	AMENDOEIRA	221013	07:00	221013	18:00		55	A	
BRAGA	BRAGA	221013	07:00	221013	18:00		20	A	
EVORA	EVORA	221013	07:00	221013	18:00		150	A	
Ok Apply Cancel									

This window is used for the activation and deactivation of the areas for the APW and SAP functionality. Each area can have a start time and/or an end time defined for its activation, or it can be activated without any time limits, making it active until deactivated manually. Additionally, lower and upper altitude limits are given. An area can have activation schedules defined in the area data file. Such areas will be automatically activated as long as their "Auto" option is selected ("A" in the "Auto" column). The "Auto" option cannot be selected for areas that don't have an activation schedule defined in the area data file.

Dates will be shown in the format "yymmdd" and times in "hh:mm" and they must be entered in the same format. Entering an empty string for a date will clear it and the related time value and vice versa. When entering a time or date value to an empty field, the other value is automatically set to the current time/date value. Entering an empty string to the Map Text, Lower or Upper fields will reset the value to the default one from the data file.

Altitudes are shown in hundreds of feet if at or below the transition altitude, otherwise in flight levels. They must be entered in the same format.

An area's activation status can be inactive, pre-active or active. A pre-active area is an area that will become active within 30 minutes and is shown in yellow text on a gray background. An active area is shown with yellow text on a blue background. The APW system will not alert for a pre-active area, but for the SAP system a pre-active area is considered as being active.

The mouse click areas of the Airspace Management Window:

- Sorting option text (e.g. "Start date/time") Opens a pop-up menu to select a sorting option for the list
- Right-click to open an area pop-up menu
- Other fields Left-click to edit field (when edit function active)
- "Ok" button Applies the changes, closes the window
- "Apply" button Applies the changes
- "Cancel" button Cancels the changes

The sorting pop-up menu contains the following items:

- Start Date Sorts based on the Start Date/Time, earliest first
- Name Sorts alphabetically based on the Name field
- Map Text Sorts alphabetically based on the Map Text field

With the area pop-up menu opened, the area text row background changes to black. The menu contains the following items:

- ACTIVATE Clears any activation times and activates the area
- DEACTIVATE Clears any activation times and deactivates the area
- AUTO If an activation schedule is found in the area data file, sets the
- area to be activated automatically
- VALIDATE Not implemented
- EDIT Allows to change the area parameters
- COPY Not implemented
- DELETE Clears any activation times, returns label and altitude limits to their default values and deactivates the area

After any selection from the pop-up menu, "Ok", "Apply" or "Cancel" must be selected to apply or cancel the selection.

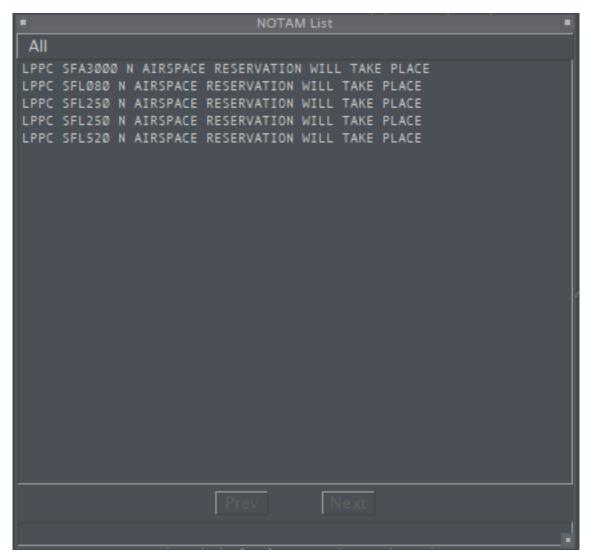
Preactive and active areas are displayed on the radar screen. The area border is drawn using a predefined color and it may be filled as well. A predefined text label may

also be displayed, showing information about the area. A very small "+" symbol will be drawn at that location. By holding the left mouse button down on that symbol, a full area label will be displayed, showing:

Name
Map text
Upper level limit
Start time —— End time
Lower level limit
time in minutes until the area becomes active

2.7 Lists

2.7.1 NOTAM List



The NOTAM List is automatically displayed at startup in order to fetch the current FUA. It may be closed after loading.

- 2.8 Safety Nets
- 2.9 Monitoring Aids
- 2.10 Flight Plan Conflict Probe

Label field descriptions

Color Values

Keyboard Shortcuts