

TopSky plugin for EuroScope

- *version 1.0.0* -
Portugal

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1 Track presentation

The presentation of radar and flight plan tracks consists of the following elements:

- Aircraft position symbol
- History dots
- Prediction line
- Track label

1.1 Colors

Most of the track presentation coloring depends on the flight sector state. The states are as follows:

Sector state name	Color name	Condition
Unconcerned	“Unconcerned”	Track will not enter the active sector
Notified	“Concerned”	Track will enter the active sector (> 15 min)
Coordinated	“Coordination”	Track will enter the active sector (< 15 min)
Assumed	“Assumed”	Track is assumed
Transfer Initiated	“Assumed”	Track is being transferred to the next controller
Redundant	“Redundant”	Track has been transferred to the next controller but is still inside the active sector

1.2 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 five basic shapes that tell what kind of track is in question:



Flight plan track (position is not based on surveillance data but calculated by EuroScope)



Coasted track (no position updates in over 30 seconds, position no longer reliable)



Secondary correlated track



Secondary uncorrelated track



Secondary correlated with WAM (Wide Area Multilateration) data



Secondary uncorrelated with WAM (Wide Area Multilateration) data



An indication of an SPI (transponder ident) can be added to either of the last four symbols.

It draws a cross over the symbol and prints the text “SPI” above and to the right of the symbol:
Controlled secondary or combined radar track with Special Position Indication

1.3 History dots

The history dots show the previous positions of the track. The number of displayed dots can be changed via the Track Control Window. 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.

1.4 Prediction line

The prediction line draws the predicted ground track of the aircraft, based on its current track and ground speed. It is colored the same as the track, with every segment representing one minute of flying time. The length of the prediction line can be changed for all tracks via the Euroscope leader line menu on the topmost bar. The example below shows a selected track with 5 history dots and a 2-minute prediction line. Prediction lines are not displayed for flight plan tracks.



1.5 Track label

The following descriptions show the positions of the data fields in the different labels of the set that is provided with the plugin and the available mouse click areas.

As a general note, warnings and messages are displayed on line 0 of the datatag (topmost line). A ‘+’ symbol on line 0 indicates a priority flight. A yellow letter W will show for aircraft with an unknown RVSM status, while a red letter W will show for aircraft without RVSM approval. Line 0 will also display the release indicator.

Callsign will show on line 1. A flashing pair of ‘[]’ will surround the callsign for aircraft initiating datalink connection, while a steady pair of ‘[]’ will surround the callsign for aircraft with datalink connection established.

On line 2, for Flightplan Tracks only, Last Reported Flight Level will be shown instead of mode C reported altitude, preceded by the letter L in yellow. Wake Category Heavy aircraft will show the letter H at the end of line 2.

Next waypoint will show on line 4. Where a heading is assigned it will be shown instead.

In the unselected track labels, a data field that contains no data will be blank. An exception to this is the AFL field which will display “AFL” when no altitude data is available for the track. In the selected track label a field with no data will still be displayed, usually displaying the field name (for example “AHDG”). Exceptions to this are all fields on line 0 and the cleared attitude data field. In flight lists, the display of a field with no data depends on the specific field.

1.5.1 Uncorrelated label

```
6722  
380
```

1.5.1 Correlated label

Unselected track

```
RZ0221  
380 360  
024
```

Selected track

```
RZ0221 SI  
380 360  
366  
GUNTI ASP  
6722
```

1.5.2 Correlated Assumed label

Unselected track

```
CLAM MTC  
EZY189T  
360 380  
442
```

Selected track

```
RZ0221 SI  
380 380  
427  
GUNTI ASP  
6722
```

1.5.3 Flightplan Track label

Unselected track

```
GTI8051  
LAFL 320H
```

Selected track

```
GTI8051 SI  
LAFL 320H  
492  
SUBAL
```

1.5.4 Mouse functions in track labels

Data field	Left-click action	Right-click action
CPDLC Emergency	Open CPDLC Emergency Acknowledgement Menu	
Coordination Message	Open Tactical Transfer Menu	
Manual Coordination flag	Accept Manual Coordination	
Callsign	Open Callsign Menu	
Communication Type flag	Open communication type menu	
CPDLC warning	CPDLC warning functions	
Sector Indicator	Open next controller list	Toggle next frequency
Actual Flight Level	Toggle route prediction point draw	Toggle route draw
Last Reported Flight Level	Open LFL menu	Toggle route draw
Cleared Flight Level	Open CFL menu	Open altitude coordination list
Next waypoint	Open AHDG menu	Open Waypoint menu
Assigned speed	Open ASP menu	Clear ASP value
Transponded SSR code	Open FPL window	Open ASSR menu

2 Flight lists

2.1 Sector Inbound List (SIL)

Sector Inbound List														
C/S	ATYP	COPN	ETN	PEL	FRADep	ADES	ETA	COPX	ETX	XFL	STAR	RWY	SI	ASSR TXT
EZY73TE	A320	COPN			EGGW	LPFR	1553	COPX			ALAGU6A	28		
RYR15FB	B738	COPN			EDDK	LPFR	1550	COPX			ASPOR5C	35		
RYR93MB	B738	COPN			EBBR	LPPT	1528	COPX			INBOM8A	03		
TAP783	A321	COPN			ESSA	LPPT	1455	COPX			XAMAX8A	03		
TOM5LW	B738	COPN			EGSS	LPFR	1529	COPX				10		

Data field	Use	Left-click action	Right-click action
C/S		Open Callsign menu	
ATYP			
COPN	Direct to coordination from previous sector	Open COPN coordination list	
ETN	Estimate time of entry into sector		
PEL	Planned entry level	Open COPN/COPX altitude coordination list	
FR	Flight rules. Shows 'V' for VFR		
ADEP			
ADES			Toggle route draw
ETA			
COPX	Direct to coordination to next sector	Open COPX point coordination list	
ETX	Estimate time of exit from sector		
XFL	Exit Flight Level from sector	Open COPX altitude coordination list	
STAR	Cleared STAR	Open waypoint menu	
RWY	Arrival runway		
SI		Open next controller list popup	Toggle SI frequency display

ASSR		Open ASSR menu	
TXT	Free text. Value coordinated immediately		

2.2 Sector Exit List (SEL)

Sector Exit List															
C/S	ATYP	COPX	ETX	XFL	FR	ADEP	SID	RFL	ADES	STAR	RWY	ETA	ASSR	SI	TXT
N142QS	GLEX	COPX		XFL		LPAZ		390	LPCS		35	1451	6725		OP_TEXT
VVV211	C25B	COPX	1521	370		LPAZ		370	LECO			1535	4735		OP_TEXT
RAM749G	B738	AMSEL	1452	370		LFPO		370	GMMX			1533	6756		OP_TEXT
AMX002	B789	COPX	1510	360		LEMD		360	MMMX			0213	6733		OP_TEXT
LDM61J	A320	COPX	1444	360		GCLP		360	EDDL			1639	6744		OP_TEXT
TAP583H	A320	COPX		XFL		EDDF		350	LPPT	XAMAX8A	03	1458	6736		OP_TEXT
TAP243	A333	COPX	1448	300		LPPT	BUSEN2N	300	KORD			2136	6730		OP_TEXT

Data field	Use	Left-click action	Right-click action
C/S		Open callsign menu	
ATYP			
COPX	Direct to coordination to next sector	Open waypoint menu	
ETX	Estimate time of exit from sector		
XFL	Exit Flight Level from sector	Open COPN/COPX altitude coordination list	
FR	Flight rules. Shows 'V' for VFR		
ADEP			
SID	Cleared SID	Open waypoint menu	
RFL	Requested Flight Level. Update if different	Open RFL menu	
ADES		Open FPL menu	Toggle route draw
STAR	Cleared STAR	Open waypoint menu	
RWY	Arrival runway	Open runway setup popup list	

ETA			
ASSR		Open ASSR menu	
SI		Open next controller popup list	Toggle SI frequency display
TXT	Free text	Edit scratchpad. Value coordinated immediately	

2.3 Departure List



C/S	TOBT	ATYP	WTC	FR	STD	QNH	ADEP	ADES	RWY	SID	ASSR	CFL	RFL	STS
DLH13C	1322	A321	M				LPPT	EDDM	03	IXIDA4N		340	340	
NAX278Z	1405	B738	M				LPPT	ESSA	03	IXIDA4N		360	360	

Data Field	Use	Left-click action	Right-click action
C/S		Open callsign menu	
TOBT	Sequencing, update on ready. Defaults to current time on menu opening	Open time menu	
ATYP			
WTC			
FR	Shows 'V' for VFR		
STD	Detected stand		
QNH	Update with last given QNH. Update pilot and then field again if QNH changes	Edit scratchpad. Value coordinated on strip pushing	
ADEP			
ADES		Open FPL window	Toggle route draw
RWY	Pressing Cancel on the PDC menu will keep the assigned	Open PDC menu	

	values without setting clearance flag		
SID		Open PDC menu	
ASSR		Open ASSR menu	
CFL	Update with SID or assigned initial climb	Open CFL menu	
RFL	Update with RFL if different	Open RFL menu	
Clearance received flag	Set when clearance readback received and correct	Sets clearance received flag	
STS	Set to Ready when pilot reports ready. Set to Start Up when cleared. Set to Taxi when cleared to taxi. Set to Taxi SP (Taxi Special) when a different from standard taxi is assigned such as intersection P or full length. Set to Line Up when cleared. Set to Take Off when cleared.	Open ground status menu	