TopSky plugin for EuroScope *- version 1.0.0 -*

Portugal

**Table of Contents**

[**1 Track presentation**](#_o2s8xtyiuxsg)

[**1.1 Colors**](#_5tr5dmk1ggjf)

[**1.2 Aircraft position symbol**](#_d6gd4juuo1kn)

[**1.3 History dots**](#_hljsjddovh8w)

[**1.4 Prediction line**](#_u73ee3fmfkc1)

[**1.5 Track label**](#_wr92kl3vxu9x)

[**1.5.1 Uncorrelated label**](#_uxlt3v86pmip)

[**1.5.1 Correlated label**](#_t37j7sf9mxqz)

[**1.5.2 Correlated Assumed label**](#_ne02mipsnxps)

[**1.5.3 Flightplan Track label**](#_lxfclhbi3ubg)

[**1.5.4 Mouse functions in track labels**](#_lc91yxjj1x17)

[**2 Flight lists**](#_gg3rwy3xk5s)

[**2.1 Sector Inbound List (SIL)**](#_76rl8tq62rz4)

[**2.2 Sector Exit List (SEL)**](#_eznlha92cw7g)

[**2.3 Departure List**](#_qtjnsvtes6vw)

[**3 Label fields description**](#_jgknjelhqpr0)

# 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 stablished.

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

**

### 1.5.1 Correlated label

*Unselected track*

**

*Selected track*

**

### 1.5.2 Correlated Assumed label

*Unselected track*

**

*Selected track*

**

### 1.5.3 Flightplan Track label

*Unselected track*

**

*Selected track*

**

### 

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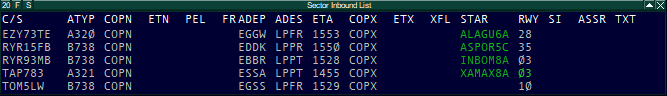
### 1.5.4 Mouse functions in track labels

|  |  |  |
| --- | --- | --- |
| **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)



|  |  |  |  |
| --- | --- | --- | --- |
| **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)

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|  |  |  |  |
| --- | --- | --- | --- |
| 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

****

|  |  |  |  |
| --- | --- | --- | --- |
| **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 values without setting clearance flag | Open PDC menu |  |
| 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 |  |