

TopSky plugin for EuroScope

- version 2.2 -

Denmark/Sweden

EuroScope | power of control

Table of Contents

1	Track presentation.....	3
1.1	Colors.....	3
1.2	Aircraft position symbol	3
1.3	History dots	4
1.4	Prediction line.....	4
1.5	Track label.....	4
2	Flight lists	7
2.1	Sector In List (SIL) and Sector Exit List (SEL)	7
2.2	Departure List	7
2.3	Arrival List	8
2.4	Flight Plan List.....	8
3	Label fields description	9
4	Colors.....	19

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

An unconcerned track can be highlighted based on rules (a combination of departure airport, route and arrival airport) defined in plugin data files. In this case it is drawn with "Informed" color.

Many track label fields have specific coloring rules to indicate various events. Refer to [Label fields description](#) for these. For the color definitions, refer to [Colors](#).

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)
- Primary radar track
- ◇ Secondary or combined radar track (uncontrolled VFR flight)
- Secondary or combined radar track (other flight)

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

For all the three radar position symbols, a divergence alert will be drawn in case of a RAM or CLAM alert. This is a circle drawn around the symbol (will not be drawn if SPI is active):



Controlled secondary or combined radar track with divergence alert

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 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 PRL 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.



1.5 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.

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. The contents and any special coloring rules for the data fields are explained in [Label fields description](#). Note that an uncorrelated primary radar track will not show a label at all.

Data fields in grey color can be selected globally on/off via the Track Control Window, or for some of them, for individual tracks via the selected or *Extended* track label. In case of the CFL/PEL field, only the PEL display can be selected off.

1.5.1 Uncorrelated label

Unselected track

```
EMRG ALRT
TSSR IDENT
AFL a GS
```

Selected track

```
EMRG ALRT
TSSR (IDENT)
AFL (a) GS
(DSFL) (DHDG) (DIAS) (DMACH) (DRC)
```

1.5.2 Reduced label

Unselected track

```
V W EMRG ALRT S
MTCD CALLSIGN SI NRAC ATYP WTC TSSR
AFL a GS NPT ADES
```

Selected track

```
COM * V W M A + C TEL I S EMRG ALRT TEXT2
(MTCD) CALLSIGN SI NRAC ATYP WTC TSSR
AFL (a) GS NPT ADES
CFL
(DSFL) (DHDG) (DIAS) (DMACH) (DRC)
OP_TEXT [max 2 lines of text]
```

1.5.3 Standard label

Unselected track

```
COM V W R P Y M • • A + C TEL I S EMRG ALRT RI COORD NSSR CPDLC_E
CPDLC_W TEXT2
MTCD CALLSIGN PFREQ SI NRAC ATYP WTC TSSR
AFL a COPN/COPX GS NPT RFL PRFL ADES
CFL/PEL XFL AHDG ASP
```

Selected track

```
COM * V W R P Y M • • A + C TEL I S EMRG ALRT RI COORD NSSR CPDLC_E
CPDLC_W TEXT2
(MTCD) CALLSIGN (PFREQ) SI NRAC ATYP WTC TSSR
AFL (a) COPN/COPX GS NPT RFL (PRFL) ADES
CFL/PEL XFL AHDG ASP
(DSFL) (DHDG) (DIAS) (DMACH) (DRC)
OP_TEXT [max 2 lines of text]
```

1.5.4 Extended label

COM * V W R P Y M • • A + C TEL I S EMRG ALRT RI COORD NSSR CPDLC_E CPDLC_W TEXT2 (MTCD) CALLSIGN (PFREQ) SI NRAC ATYP WTC AFL (a) COPN/COPX GS NPT RFL (PRFL) ADES CFL/PEL XFL AHDG ASP (DSFL) (DHDG) (DIAS) (DMACH) (DRC) COMP_CS FIELD15 [max 6 lines of text] FIELD18 [max 6 lines of text] MALRT OP_TEXT [max 2 lines of text] OP_TEXT2	TSSR ASSR PSSR FLTID FLTADD ADEP EOBT/ETD/ATD EET ALT1 ALT2
---	--

1.5.5 Mouse functions in track labels

Data field	Left-click action	Right-click action
*	Toggle units	
+		Open extended label
A		Open extended label
ADES	Open Flight Plan Window	Toggle display in unselected label
AFL	Open AFL menu	Toggle flight leg display
AHDG	Open AHDG menu / AHDG vector	Open CPDLC Current Message Window (if field includes "+")
ASP	Open ASP menu	Clear assigned ASP value
ASSR	Open ASSR menu	Send CPDLC "Squawk SSR" message
ATYP	Toggle aircraft type highlight	Toggle display in unselected label
C	Toggle inbound clearance flag	
CALLSIGN	Open Callsign menu	Open extended label
CFL/PEL	Acknowledge PEL highlight, Open CFL / COPN altitude menu	Toggle flight leg display
COORD	Open Tactical Transfer menu	Open Tactical Info Window
COPN/COPX	Open Waypoint menu	Toggle flight leg display
CPDLC_E	Open CPDLC Emergency Ack menu	
CPDLC_W	Acknowledge warning / Open CPDLC Pilot Late Acknowledgement menu	Open CPDLC Current Message Window (if field includes "+")
GS		Toggle display in unselected label
I		Open extended label
M	Toggle military coordination flag	
NPT	Open NPT menu	Open CPDLC Current Message Window (if field includes "+")
NSSR	Open ASSR menu	Send CPDLC "Squawk SSR" message
OP_TEXT	Edit OP-TEXT	
OP_TEXT2	Edit OP-TEXT2	
PFREQ		Acknowledge monitoring indicator
PRFL	Open RFL menu	Open CPDLC Current Message Window (if field includes "+")
RFL	Open RFL menu	
SI	Open next controller menu	Toggle sector ID/freq display
TEL	Accept manual coordination	
TEXT2		Open extended label
TSSR	Open Callsign menu	Toggle mode S DAPs display
XFL	Open COPX altitude menu	Toggle flight leg display

2 Flight lists

The ES default lists have the following items and functionality (some fields are deselected by default):

2.1 Sector In List (SIL) and Sector Exit List (SEL)

Data field	Left-click action	Right-click action
U	Toggle units	
No		
C/S	Open Callsign menu	
W		
R		
ETN	Open estimate popup	
PEL	Acknowledge PEL highlight, Open COPN altitude coordination list	Toggle flight leg display
COPN	Open Waypoint menu	Toggle flight leg display
CFL	Open CFL menu	Toggle flight leg display
XFL	Open COPX altitude coordination list	Toggle flight leg display
COPX	Open Waypoint menu	Toggle flight leg display
RFL	Open RFL menu	Open CPDLC Entire Message Window
ASSR	Open ASSR menu	Send CPDLC "Squawk SSR" message
ADEP		
ADES	Open Flight Plan Window	Open ES flight plan dialog
SI	Open next controller popup list	
ATYP	Toggle ATYP highlight	
ETA	Open estimate popup	
STAR	Open STAR setup popup list	
ARWY	Open RWY setup popup list	

2.2 Departure List

Data field	Left-click action	Right-click action
U	Toggle units	
No		
C/S	Open Callsign menu	
W		
R		
TIME		
DSQ		
CFL	Open CFL menu	Toggle flight leg display
XFL	Open COPN/COPX altitude coordination list	Toggle flight leg display
COPX	Open Waypoint menu	Toggle flight leg display
ADEP		
ADES	Open Flight Plan Window	Open ES flight plan dialog
RFL	Open RFL menu	Open CPDLC Entire Message Window
ATYP	Toggle ATYP highlight	
ASSR	Open ASSR menu	Send CPDLC "Squawk SSR" message
AHDG	Open AHDG menu	Open CPDLC Entire Message Window
SID	Open SID setup popup list	
DRWY	Open RWY setup popup list	
SI	Open next controller popup list	
DEP	Open ground status popup list	
CLR	Open PDC Window	

2.3 Arrival List

Data field	Left-click action	Right-click action
C/S	Open Callsign menu	
OP_TEXT2	Edit OP-TEXT2	

2.4 Flight Plan List

Data field	Left-click action	Right-click action
C/S	Open Callsign menu	
R		
ETO	Open estimate popup	
PEL	Open COPN altitude coordination list	Toggle flight leg display
ADEP		
ADES	Open Flight Plan Window	Open ES flight plan dialog
STS	Open FP track status popup	

3 Label fields description

Treatment of fields with no data

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 and extended track labels 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, the attitude indicator, FIELD15, FIELD18 and MALRT data fields. In flight lists, the display of a field with no data depends on the specific field.

Active and inactive indicators

Some of the indicator characters in line 0 of the track label have active and inactive states. In the inactive state the indicator is not shown on the unselected label, and on the selected and extended labels it is shown after the other indicators and in the normal flight sector color. For example when clicking the Inbound clearance indicator, it changes to inactive state. Clicking the inactive indicator in the selected or extended label will restore it to active state.

Data fields description and coloring

The table below describes the data fields used in the labels and flight lists and their coloring rules, if different from the normal flight sector colors.

Data field	Description	Comments	Color
•	Frequency	“•”, set from Callsign menu	Freq Indicator
•	Mark	“•”, set from Callsign menu	Information
+	Field 18 information	“+” if “RMK/” or “STS/” found in FPL remarks field	
*	Unit	“*” if label units are different from the other aircraft	If metric system units chosen: Warning
A	Manual alerts	“A” if Manual alert(s) active	Warning
a	Attitude indicator	Climbing: up arrow Descending: down arrow Level flight or unknown: blank	
ADEP	Departure aerodrome	ICAO code, 4 characters	
ADES	Destination aerodrome	ICAO code, 4 characters	
AFL	Actual Flight Level	<u>Nautical:</u> FL’s with 3 digits, altitudes “A”+ 2 digits, heights “E”+ 2 digits, in hundreds of feet <u>Metric:</u> FL’s with 5 digits, altitudes “M”+max 4 digits, heights “E”+max 4 digits, leading spaces added if necessary to make 5 characters total	AIW: AIW Intrusion Manually set: Warning Mark All: CARD Mark All S-Highlight: Warning

Data field	Description	Comments	Color
AHDG	Assigned heading	<p>Assigned heading (“H”+ 3 digits) or direct point name.</p> <p><u>Unselected label:</u> Point name is not shown for unselected track if it is the same as the COPX</p> <p>If a heading clearance or request is in progress via CPDLC, displays “[heading]”, followed by “+” if the request or answer contains a reason (i.e. DUE TO something).</p>	<p>If a value is assigned and HOP: Proposition</p> <p>If a tactical coordination value is accepted but not set: Information</p> <p>If a CPDLC uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC downlink message has been received: CPDLC DM Request</p> <p>If controller timeout has expired following a CPDLC downlink request: CPDLC Controller Late</p> <p>If a CPDLC warning has been raised: color of the warning</p>
ALRT	Alert message	<p>“MSAW”, “APW”, “AIW”, “CLAM”, “RAM” or “DUPE” (in this priority order)</p>	<p>MSAW or APW: Warning</p> <p>AIW: AIW Intrusion</p>
ALT1	Alternate aerodrome 1	ICAO code, 4 characters	
ALT2	Alternate aerodrome 2	Second alternate can be set by inserting “ALT2/XXXX” (where XXXX is the aerodrome ICAO code) into the FPL remarks field	
ARWY	Arrival runway	Arrival runway identifier	<p>If manually assigned: Rwy Locked</p>

Data field	Description	Comments	Color
ASP	Assigned speed	<p>Mach "M"+ 2 or 3 digits, in 1/100's of Ma, max "M999". "HS" for high speed clearance.</p> <p><u>Nautical:</u> Speed 2 digits, in 10's of knots, max "99"</p> <p><u>Metric:</u> Speed "K"+ 2 digits, in 10's of km/h, max "K99"</p> <p>If a speed clearance or request is in progress via CPDLC, displays "[speed]", followed by "+" if the request or answer contains a reason (i.e. DUE TO something).</p>	<p>If a value is assigned and HOP: Proposition</p> <p>If a tactical coordination value is accepted but not set: Information</p> <p>If a CPDLC uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC downlink message has been received: CPDLC DM Request</p> <p>If controller timeout has expired following a CPDLC downlink request: CPDLC Controller Late</p> <p>If a CPDLC warning has been raised: color of the warning</p>
ASSR	Assigned mode 3/A code	<p>4 digits. If no code assigned, shows TSSR code if available</p> <p>If a SQUAWK SSR message is in progress via CPDLC, displays the code in brackets, followed by "+" of the answer contains a reason (i.e. DUE TO something).</p>	<p>If different than TSSR: Warning</p> <p>If a CPDLC uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC warning has been raised: color of the warning</p>
ATYP	Aircraft type	Type with max 4 characters	If highlighted: Warning
C	Inbound clearance	"C" if ADES is one of the defined airports -> aircraft needs inbound clearance	Active state: Information
CALLSIGN (track labels) C/S (flight lists)	Callsign	<p>If more than one aircraft, suffixed by "+". If correlated to a primary track or to a secondary track with no ASSR code and a non-discrete TSSR code, suffixed by "**".</p> <p>If the flight is CPDLC connected, the callsign is displayed in brackets.</p>	<p><u>Priority order:</u> STCA alert: Urgency HOP in: Proposition Mark Own: CARD Mark Own Highlight: Warning Mark All: CARD Mark All S-Highlight: Warning</p> <p><u>If none of the above:</u> Notified: Coordinated Transfer in: Assumed Transfer out: Redundant</p>

Data field	Description	Comments	Color
CFL	Cleared Flight Level	<p>“CA” if Clear for App flag set, “VA” if Visual App flag set, See AFL field for number format.</p> <p><u>Unselected label:</u> Not shown if equal to AFL</p> <p>If a level clearance is in progress via CPDLC, displays “[level]”, followed by “+” if the answer contains a reason (i.e. DUE TO something).</p>	<p><u>Departure list:</u> if CTR or FSS & CFL > PEL, for others if CFL > XFL: Warning</p> <p>If a CPDLC uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC warning has been raised: color of the warning</p>
CFL/PEL	Cleared Flight Level or Planned Entry Level	<p>PEL is shown for flights in “coordinated” and “ongoing coordination” states, CFL otherwise. “CA” if Clear for App flag set, “VA” if Visual App flag set, See AFL field for number format.</p> <p><u>Unselected label:</u> Not shown if equal to AFL and no ongoing coordination.</p> <p>If a level clearance is in progress via CPDLC, displays “[level]”, followed by “+” if the answer contains a reason (i.e. DUE TO something).</p>	<p><u>PEL:</u> Ongoing coordination: Proposition Change just before ETN: Info Coord Coordination refused: Warning</p> <p><u>CFL:</u> If a CPDLC uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC downlink message has been received: CPDLC DM Request</p> <p>If a CPDLC warning has been raised: color of the warning</p>
CLR	Clearance received flag	<p>Filled rectangle if clearance received, “R” if clearance requested via data link, “A” if waiting for answer from the aircraft for a sent data link clearance, Empty rectangle if no clearance received and no data link clearance in progress</p> <p>“R” and “A” are blinking when less than 2 minutes are remaining to timeout</p>	<p><u>“R”:</u> When request contains free text: Urgency Otherwise: Warning</p> <p><u>“A”:</u> When blinking: Warning</p>
COM	Communication type	<p>“r” if voice receive only “t” if text only</p>	Warning

Data field	Description	Comments	Color
COMP_CS	ICAO RTF callsign	The decoded ICAO RTF callsign, “???” if not in database	
COORD	Coordination message	<p>“ROF” if a Request On Frequency message has been received from the next sector</p> <p>The last changed tactical coordination parameter value (AHDG, ASP or ARC)</p>	<p>Coordination</p> <p>Proposed: Proposition Rejected: Warning</p>
COPN	Entry point	A holding clearance is displayed if there is no coordination. It shows the holding point name + “ H” or for lat/lon point holdings, “POS H”. For a TSA Hold clearance, the area name is shown.	Ongoing coordination: Proposition Coordination refused: Warning
COPX	Exit point	<p>See COPN</p> <p><u>Departure list:</u> If logged in as CTR and flight not inside active sector, displays COPN</p>	Ongoing coordination: Proposition Coordination refused: Warning
COPN/COPX	Entry point or Exit point	COPN is shown for controlled flights in “coordinated” and “ongoing coordination” states, COPX in “assumed”, “transfer initiated” and “redundant”. For uncontrolled unconcerned tracks, FIR exit COP (FCOPX) is shown here. For more information see COPN.	Ongoing coordination: Proposition Coordination refused: Warning
CPDLC_E	CPDLC Emergency	CPDLC emergency messages: “SQ7500”, “[MAYDAY]”, or “[PAN]”	Urgency
CPDLC_W	CPDLC Warning	<p>CPDLC warning messages:</p> <p>“COMM FAIL” for network failure “<type> ERR” for message failure “<type> NOT CDA” for NOT CURRENT DATA AUTHORITY response “<type> UNA” for UNABLE response “<type> P LATE” for timeout “<type> SBY” for STANDBY response</p> <p><type> is the type of message: “COF” for communication transfer “CFL” for level clearance “DCT” for direct-to clearance “AHDG” for heading clearance “SSR” for SQUAWK SSR message “SQI” for SQUAWK IDENT message</p>	<p>“COMM FAIL”, “<type> ERR” or “<type> NOT CDA”: CPDLC Failed</p> <p>“<type> UNA”: CPDLC Unable</p> <p>“<type> SBY”: CPDLC Standby</p> <p>“<type> P LATE”: CPDLC Pilot Late</p>
DEP	Ground state	“PUSH”, “TAXI” or “DEPA”	

Data field	Description	Comments	Color
DHDG	Downloaded heading	Magnetic heading as downloaded from the aircraft via mode S DAPs. "H" + 3 digits.	
DIAS	Downloaded indicated airspeed	Indicated airspeed as downloaded from the aircraft via mode S DAPs. Not available on VATSIM.	
DMACH	Downloaded Mach number	Mach number as downloaded from the aircraft via mode S DAPs. Not available on VATSIM.	
DRC	Downloaded rate of climb/descent	Rate of climb/descent as downloaded from the aircraft via mode S DAPs. Not available on VATSIM.	
DRWY	Departure runway	Departure runway identifier	If the runway is not an active departure runway: Clearance flag not set: Proposition Clearance flag set: Information
DSFL	Downloaded selected flight level	Selected flight level as downloaded from the aircraft via mode S DAPs. Not available on VATSIM.	
EET	Estimated Elapsed Time	"HHMM"	
EMRG	Emergency	"HI" for squawk 7500, "CF" for squawk 7600, "EM" for squawk 7700	Urgency
EOBT/ETD/ATD	Estimated Off-Block Time or Estimated Time of Departure or Actual Time of Departure	For a departed aircraft, shows the actual departure, otherwise the estimated departure time. "HHMM", both times taken from the FPL data	
ETA	Estimated Time or Arrival	"HHMM"	
ETN	Estimated Time over COPN or sector entry	"HHMM"	
FIELD15	Speed/Level/Route	The flight plan field 15 data (TAS, RFL and route). Max 270 characters	
FIELD18	Other information	The flight plan field 18 data (remarks). Max 270 characters	
FLTADD	Mode S transponder address	Mode S transponder hex address	
FLTID	Mode S Callsign value	Callsign as received via mode S	
GS	Ground Speed	<u>Nautical:</u> 3 digits, in knots, max "999". Optionally prefixed by "N". <u>Metric:</u> "K" + 3 digits, in km/h, max "K999"	
I	Flight information	"I" if OP-TEXT has data	

Data field	Description	Comments	Color
M	Military coordination	"M" if military coordination is required	Active state: Warning
MALRT	Manual alerts	Displays alerts entered via the Callsign menu	Warning
MTCD	MTCD indicator	"•" if aircraft has an MTCD problem	Urgency
NRAC (track labels) No (flight lists)	Number of aircraft	<p>Number from 2 to 99</p> <p><u>Extended label:</u></p> <p>"n" if 1</p> <p><u>Other label or flight list:</u></p> <p>blank if 1</p> <p>Number can be set by prefixing the aircraft type in the FPL by "X/" where X is the number (max 99).</p>	
NPT	Next route point	<p><u>DCT request or clearance via CPDLC is in progress:</u></p> <p>Displays the point name, followed by "+" if the request contains a reason (i.e. DUE TO something)</p> <p><u>Otherwise:</u></p> <p>Next point on the route</p>	<p>If a CPDLC uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC downlink message has been received: CPDLC DM Request</p> <p>If controller timeout has expired following a CPDLC downlink request: CPDLC Controller Late</p> <p>If a CPDLC warning has been raised: color of the warning</p>
NSSR	SSR warning	Displays ASSR if different from TSSR	<p>If a CPDLC uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC warning has been raised: color of the warning</p>
OP_TEXT	Flight information message	User entered text, stored in the flight strip	
OP_TEXT2	OP-TEXT2 message	User entered text, stored in the scratchpad	
P	No P-RNAV capability	"P" if aircraft equipment is not indicating P-RNAV capability and destination has P-RNAV arrival procedures	Information

Data field	Description	Comments	Color
PEL	Planned Entry Level	“CA” if Clear for App set, “VA” if Visual App flag set, See AFL field for number format.	Ongoing coordination: Proposition Change just before ETN: Info Coord Coordination refused: Warning
PFREQ	Pilot monitored frequency	Displays your primary frequency when transfer of communications was done via CPDLC using the MONITOR option	CPDLC DM Request
PRFL	RFL requested by pilot via CPDLC	Displays “[requested level]”, followed by “+” if the request contains a reason (i.e. DUE TO something)	If a CPDLC downlink message has been received: CPDLC DM Request If controller timeout has expired following a CPDLC downlink request: CPDLC Controller Late If a CPDLC warning has been raised: color of the warning
PSSR	Previous mode 3/A code	If not known, shows ASSR value. Otherwise format as ASSR field.	
R (track labels)	No B-RNAV capability	“R” if aircraft equipment is not indicating B-RNAV capability	Not approved: Urgency Unknown: Unknown
R (flight lists)	Flight rules	“V” if VFR, “Y” if first IFR and later VFR, “Z” if first VFR and later IFR	
RFL	Requested Flight Level	See AFL field for format <u>In flight lists:</u> If a RFL request is in progress via CPDLC, displays “[requested level]”, followed by “+” if the request contains a reason (i.e. DUE TO something)	<u>In flight lists:</u> If a CPDLC downlink message has been received: CPDLC DM Request If controller timeout has expired following a CPDLC downlink request: CPDLC Controller Late If a CPDLC warning has been raised: color of the warning

Data field	Description	Comments	Color
RI	Release Indicator	<p>"F" fully released "C" released for climb "D" released for descent "T" released for turns Incoming release disappears 3 min after track is assumed, outgoing when track is no longer redundant.</p>	During transfer: Proposition
S	Mode S mismatch indicator	"S" if downloaded callsign is different than coupled flight plan callsign	Warning
SI	Sector Indicator	<p><u>Assumed track:</u> Next sector identifier or frequency. Displayed in brackets if a communications transfer is in progress via CPDLC, followed by "+" if the answer contains a reason (i.e. DUE TO something). In track labels the frequency display is forced on during a transfer via CPDLC.</p> <p><u>Other tracks:</u> Tracking controller identifier or frequency.</p>	<p><u>Priority order:</u> Outgoing HOP: Proposition Transfer out: Redundant Manually changed next sector: Warning Normal next sector: Coordination</p> <p>If a CPDLC communications transfer uplink message has been sent: CPDLC UM Clearance</p> <p>If a CPDLC warning has been raised: color of the warning</p>
SID	Assigned/planned SID	SID identifier	<p>If automatically assigned: Sid Star No Allocation If manually assigned: Sid Star Allocation</p>
STAR	Assigned/planned STAR	STAR identifier	<p>If automatically assigned: Sid Star No Allocation If manually assigned: Sid Star Allocation</p>
TEL	Manual coordination flag (EuroScope default item)	Displays a telephone symbol when ongoing coordination has been attempted with a controller not using EuroScope. Coordinate manually (using text messages, interphone, etc.) and then click the symbol to accept the coordination values.	ES Symbology dialog -> Datablock -> information
TEXT2	OP-TEXT2 message	If more than 10 characters, then shows first 9 + ">"	
TSSR	Aircraft transponded mode 3/A code	4 digits	
U	Unit	"*" if label units are different from the other aircraft	If metric system units chosen: Warning

Data field	Description	Comments	Color
V	Flight rules	“V” if VFR, “Y” if first IFR and later VFR, “Z” if first VFR and later IFR	
W (track labels)	No RVSM capability	“W” if aircraft equipment is not indicating RVSM capability	Not approved: Urgency Exempt: Information Unknown: Unknown
W (flight lists)	Wake turbulence category	“J” for Super, “H” for Heavy, “M” for Medium, “L” for Light	
WTC	Wake turbulence category	“J” for Super, “H” for Heavy, “M” for Medium, “L” for Light <u>Unselected label:</u> Blank if “M”	If highlighted: Warning
XFL	Exit Flight Level	“CA” if Clear for App set, “VA” if Visual App flag set, See AFL field for number format. <u>Unselected label:</u> Not shown if equal to CFL/PEL and no ongoing coordination. <u>Departure list:</u> If logged in as CTR and flight not inside active sector, displays PEL	Ongoing coordination: Proposition Coordination refused: Warning
Y	No 8.33kHz capability	“Y” if aircraft equipment is not indicating 8.33kHz capability	Not approved: Urgency Exempt: Information Unknown: Unknown

4 Colors

The following table shows the plugin defined colors (and where applicable, their EuroScope counterparts, which should be set the same for best results). The Usage column indicates where the colors are used (the list may not be complete). In the aircraft colors “Labels” means track labels and any lists where aircraft information is displayed, “Tracks” radar position symbols, history dots, prediction lines and divergence symbols.

All the EuroScope colors in the table can be found in the *Datablock* group in the *Symbology* dialog except the active and inactive sector backgrounds which are in the *Sector* group.

Color name	Corresponding ES color	Default color	Usage
Aircraft colors			
Assumed	assumed		Labels, Tracks
CARD Mark All			Labels
CARD Mark Own			Labels
Concerned			Labels, Tracks
Coordination	notified		Labels, Tracks
Freq Indicator			Labels
Info Coord			Labels
Information			Labels, Windows
Informed			Labels, Windows
Proposition			Labels
Redundant	redundant		Labels, Tracks
Rwy Locked			Labels
Sid Star Allocation			Labels
Sid Star No Allocation			Labels
Suite Highlight			Labels
Track Default			Tracks
Track Highlight			Tracks (when selected)
Unconcerned	non concerned		Labels, Tracks
Unknown			Labels
Urgency			Labels, CARD callsign STCA background
Warning	information		Labels, Windows
CPDLC colors			
CPDLC Controller Late			Labels, Windows
CPDLC Discarded			Windows
CPDLC DM Request			Labels, Windows
CPDLC Failed			Labels, Windows
CPDLC Pilot Late			Labels, Windows
CPDLC Standby			Labels, Windows
CPDLC UM Clearance			Labels, Windows
CPDLC Unable			Labels, Windows
CPDLC Urgency			Labels, Windows
Aircraft related items on the radar screen			
AIW Intrusion			AIW alert related items
CARD Min Sep			CARD SEP Tool

Color name	Corresponding ES color	Default color	Usage
Flight Leg			Part of flight leg without MTCD and SAP coverage
Heading Vector			Heading vector
Information FL			Part of flight leg with no MTCD or SAP problems
Potential FL			Part of flight leg with MTCD or SAP potential conflict
QDM			QDM vector
SEP Tool 1			SEP Tool 1
SEP Tool 2			SEP Tool 2
SEP Tool 3			SEP Tool 3
System Calculated TOC			TOC symbol on flight leg
System Calculated TOD			TOD symbol on flight leg
Urgency FL			Part of flight leg with MTCD or SAP conflict
Warning FL			Part of flight leg with MTCD or SAP risk
Map colors			
Active Map Type 1			Active TSA map type 1 border
Active Map Type 2			Active TSA map type 2 border
Active Map Type 3			Active TSA map type 3 border
Active Map Type 4			Active TSA map type 4 border
Active Map Type 5			Active TSA map type 5 border
Active RD Infill Map			Active TSA map fill
Active Text Map			Active TSA map text
Map 1			Auto-generated maps
Map 2			Auto-generated maps
Map 3			Auto-generated maps
Map 4			Auto-generated maps
Map Hotspot			Map hotspots
Map Info			Range rings
Preactive Map			Pre-active map border
Preactive Text Map			Pre-active map text
Predisplay Map			Pre-display map border
Rwy App Line Inuse			Runway approach line for runways in use
Rwy App Line Not Inuse			Runway approach line for runways not in use
TSA Border Highlight			Highlighted TSA border
Window and menu colors			
Arm			Inactive window texts
Active Sector	active sector background		Stack Manager Window, VAW
Background			Background
Border			Various lines in windows
BottomShadow			3D effects in windows
CARD Conflict Number			CARD conflict numbers
CARD Time Vector			CARD time vectors
Field Highlight	active item background		Selected field
Flight Highlight	detailed background		Selected item
Foreground			Window titles, menu items, active texts, close/min/resize boxes, range marker
Global Menu Highlight			Highlighted items in the Global Menu
Inactive Sector	inactive sector background		CARD and VAW background
Overflown			Overflown points in Complete Route Window
Potential			Potential conflicts in VAW

Color name	Corresponding ES color	Default color	Usage
Selected			
Selected Period			Active areas text in area window
SMW Level Band			AFL-CFL boxes in SMW
SMW Overflight			Overflight lines in SMW
SMW Overlap			Overlapping AFL-CFL boxes in SMW
SMW Overlap Box			Multiple same CFL's box in SMW
SMW Overshoot			Level bust AFL-CFL boxes in SMW
TopShadow			3D effects in windows
Trough			Slider area background, active selections
TSA Active			Active areas background in area window
TSA Preactive			Pre-active areas background in area window
VAW Profile			Selected aircraft profile in VAW
VAW Sector Limits			Sector boundaries in VAW
VAW Track Position			Selected aircraft position in VAW
WM Active Fg			Active window title text
WM Bg			Window title bar background
WM Border			Window border line
WM Fg			Window texts
WM Frame			Window frame when dragging
Other colors			
Raw Video 1			Raw radar video youngest plots
Raw Video 2			Raw radar video
Raw Video 3			Raw radar video
Raw Video 4			Raw radar video
Raw Video 5			Raw radar video
Raw Video 6			Raw radar video
Raw Video 7			Raw radar video oldest plots
Text Notes			Text notes