

# Plugins and Functions

## Topsky Plugin

Currently used Version in Package: v2.5b15

This plugin simulates a real-life ATC system, called Topsky. It adds a huge amount of functionalities to Euroscope, creating a completely new way of controlling aircraft on the Vatsim Network. It is strongly recommended to read through the Topsky documentation before controlling. Detailed manuals of the plugin can be found in the plugin folder of the EDWW FIR Euroscope package. This page will only cover package-specific settings:

### Area Activation/Airspace Management

The Airspace Management window will show up as soon as you start Euroscope (EDWW, EDYY, EDUU only). This is necessary to ensure that all restricted airspaces load up correctly. Restricted airspaces can activate time-based, based on real-world booking schedules (AUP) or when activated by a member of the EDWW Nav Team. Besides that, the virtual controller can adjust any area locally as well.

TRAs and VPAs will only activate automatically when actually booked or used on the Vatsim network. In this case, a member of the EDWW Nav team will activate the booked areas ( <https://github.com/VATGER-Nav/EDWW-Area-Activation>). Usually, the virtual controller will be informed if areas are booked in this thread of the Vatsim Germany Forums: <https://board.vatsim-germany.org/threads/area-booking-vatger.67465/>. In this case, the virtual controller must activate the "Remote" activation function in the Airspace Management Window.

All other ED-Rs will activate according to the German AIP and AUP.

The Airspace Management Window will also appear when connecting to the Vatsim Network. In all cases, the virtual controller may close the window, as it is usually not required during controlling sessions.

Airspace Management							
Start Date/Time							
Name	Map Text	Start Date	Start Time	End Date	End Time	Lo	
EDR30	Ehra-Lessien (ED-R 30)	240425	04:30	240425	17:00		
EDR54	Lehnin (ED-R 54)	240425	05:00	240425	16:00		
EDR55	Storkow (ED-R 55)	240425	05:00	240425	16:30		
EDR56	Kummersdorf-Gut (ED-R 56)	240425	05:00	240425	22:00		
EDR33A	Unterlues (ED-R 33A)	240425	06:00	240425	21:00		
EDR33B	Unterlues (ED-R 33B)	240425	06:00	240425	21:00		
EDR37A	Nordhorn (ED-R 37A)	240425	12:00	240425	21:30		
EDR37B	Nordhorn (ED-R 37B)	240425	12:00	240425	21:30		

## CPDLC/DCL (Datalink)

Topsky adds Datalink functions such as CPDLC and DCL. CPDLC shall only be used when covering EDYY or EDUU sectors. DCL is available at EDDB, EDDH and EDDV only.

It is recommended to save your Hoppie Code in the TopSkyCPDLChoppieCode.txt which can be found in the Topsky plugin folder of the EDWW FIR Euroscope Package. This file will not be overridden when updating our package using the Update Download from AeroNav.

## Topsky Local Settings

It is possible to adjust all Topsky settings to your personal preferences. We prepared some useful settings in the TopskySettingsLocal.txt file which can be found in the Topsky directory of the package. This file includes settings like colour settings, radio direction finder and scaling options.

It is also possible to adjust every other Topsky setting. Whenever changing Topsky settings, we recommend saving them in the local settings file, as local settings will not get overridden when updating your packing by using the "Update Package" download. Local Settings always take priority.

## Topsky Track Control

For some label/tag items, it is possible to define certain visibility settings. This creates the possibility to configure your tag/label according to your personal preferences. The track control menu can be opened by right-clicking on the Topsky Menu bar and then "Track Control..." > "Unselected Label Fields":

Track Control

Vector

0

History

5

Text

1

▼ Unselected Label Fields

Co	Ass	Red	No	All	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SQ
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ATYP
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WTC
				<input type="checkbox"/>	N
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	GS
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ADES
<input type="checkbox"/>				<input type="checkbox"/>	COPN
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	COPX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NRAC
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	XFL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	AHDG
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	ASP
<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>	PEL
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TSSR
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	RFL
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NPT
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	FCOPX
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TOG

▲ Unselected Label DAPs Fields

▲ Selected Label DAPs Fields

Currently, only the EDUU tag/label can be customized fully. All other labels/tags might not support Topsky's track control.

## Predicted Traffic Window

The predicted traffic window helps the virtual controller to better foresee the peak times of sectors. This window will appear as soon as you connect to the Vatsim network. The virtual controller then needs to enter the SI code for the desired sector (e.g. Müritz = MRZ).

Link to plugin: <https://forum.vatsim-scandinavia.org/d/34-topsky-plugin-25>

# Ground Radar Plugin (GRP)

Currently used Version in Package: v1.5

This plugin simulates a real-life Groundradar Display (SAAB A3000 A-SMGCS) by adding custom tags/labels, lists, maps and many other features and warnings. A detailed manual of the plugin can be found in the plugin folder of the EDWW FIR euroscope package. Here are some of the most important features and functions:

## Menu Bar

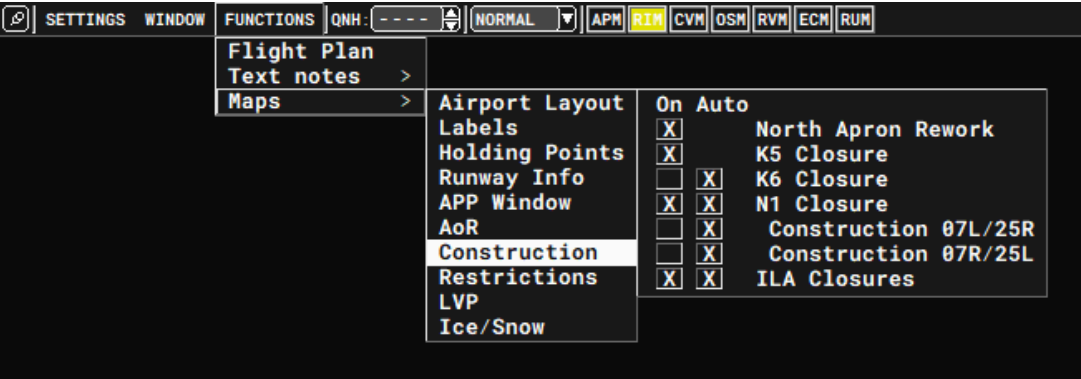
The menu bar holds all the customizable options of the Ground Radar Plugin. Besides the various warnings and sub-menus, the QNH and LVP modes be seen in the menu bar. Whenever LVP

conditions exist, the virtual controller shall activate the LVP mode to toggle maps (e.g. CAT II/III holding points) and LVP warnings.



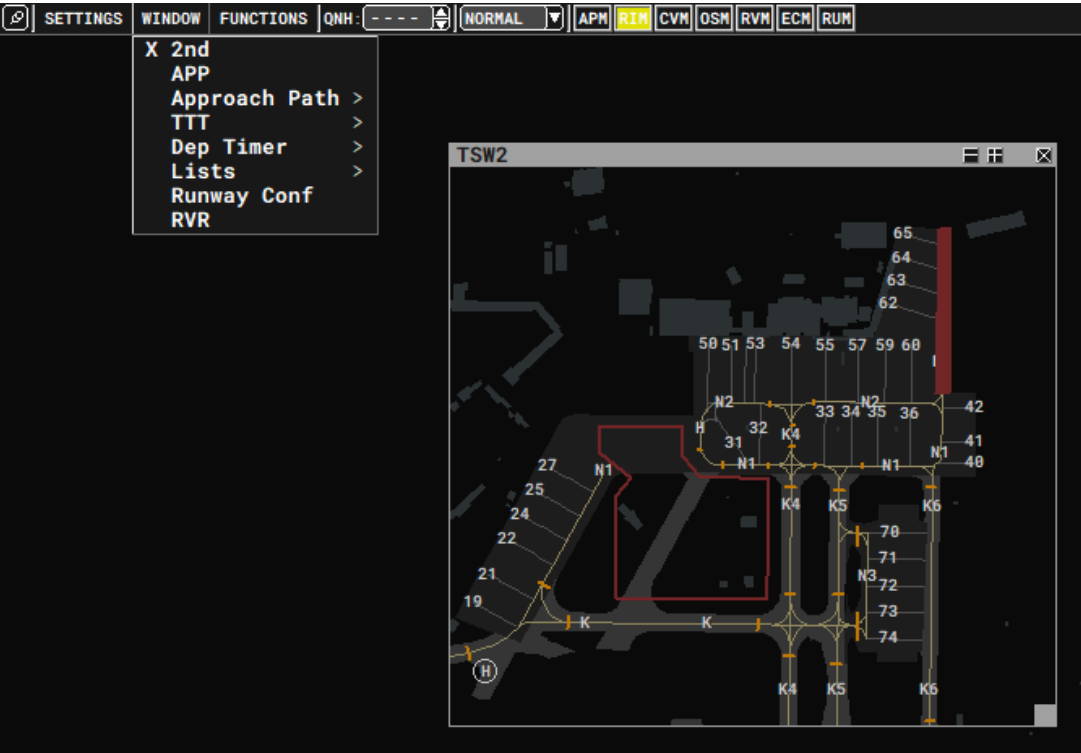
## Airport Maps

Airport maps can be toggled on manually or automatically. This adds the possibility to add certain NOTAM maps or other useful information for the virtual controller. All maps may vary depending on the airport/Ground ASR used. You can activate or deactivate maps by clicking on "Functions" then "Maps" in the Ground Radar Plugin Menu Bar:



## Second Ground Radar Window

It is possible to open a second ground radar display to observe specific areas of the ground radar more closely. The second ground radar window can be opened by clicking on "Window" then "2nd":



## Approach Window

An approach window can be opened to observe approaching and departing aircraft as well as aircraft within the CTR. The approach window can be opened by clicking on "Window" then "APP". Note, that the approach window of GRP shall not replace the TWR radar screen/ASR.

## Labels

At most airports, the ground radar labels/tags will only be displayed when departing aircraft are assigned a ground state. For arriving aircraft, the ground radar label/tag can be hidden by setting the parking ground state.

## Stand assignment

The ground radar plugin is capable of assigning arrival stands based on aerodrome restrictions and company policies. We strongly recommend using the stands assigned by the ground radar plugin. The assigned stands are visible the the aircraft's tag and in the arrival list.

Link to plugin: <https://forum.vatsim-scandinavia.org/d/33-ground-radar-plugin-15/2>

## vSID Plugin

Currently used Version in Package: v0.11.1

This plugin will automatically assign a departure runway and SID based on SOP regulations and the aircraft's equipment.

Further information about the usage of the plugin: <https://knowledgebase.vatsim-germany.org/books/vsid-plugin/page/vsid-controller-manual>

Plugin commands for EDDB and EDDV are available.

## CDM Plugin

Currently used Version in Package: v2.2.4

This plugin adds the possibility to control departure flows by calculating startup and departure times. It can only be used in the Tower profiles (PHX). The CDM plugin is only configured for EDDB and EDDH, as those are the only two airports having the A-CDM process implemented in real life.

Further information about the usage of the plugin: <https://dms.vatsim-germany.org/s/odw629qZk5WezPi>

Link to plugin: <https://github.com/rpuig2001/CDM>

# Squawk Message/Warning

Currently used Version in Package: v1.0.1

Created by Vatsim member Pol Eyschen, this plugin displays a message/indicator in the aircraft's labels when squawking a specific transponder code.

The following indications are available in the EDWW FIR package:

Indication	Squawks	Description
NDSSR	1200, 2000, 2200, 0000	Displayed whenever a non-discrete squawk code is used.
V	7000	Used by uncontrolled VFR aircraft (Squawk VFR)
RESCU	0020	Used by rescue helicopters
FOTO	0021	Used during areal photo flights
BPO	0023	Used by the federal police
TFFN	0024	Used by flight within the Night Low Flying System with terrain following
PJE	0025	Used by flights performing Parachute Jumping Exercises (PJE)
POLNL	0026	Used by the police of The Netherlands
ACRO	0027	Used by acrobatic flights
CAL	0030	Used by calibration flights
OPSKY	0031	Used by "Open Skies" flights
VM	0033	Used by uncontrolled military VFR aircraft (Squawk military VFR)
SAR	0034	Used for aircraft on Search and rescue missions
AIRCL	0035	Used for aircraft switching flight rules
POL	0036	Used by police flights

BIV	0037	Used by police flights using night vision systems
FDF	4450	Used of FIS Region/Sector Frankfurt (DF)
FDR	4451	Used of FIS Region/Sector Saarbrücken (DR)
FDS	4452	Used of FIS Region/Sector Stuttgart (DS)
FDM	4453	Used of FIS Region/Sector München (DM)
FDO	4454	Used of FIS Region/Sector München Overload (DO)
TMZ	4471, 4472, 4476, 4477, 4660, 4676,	Used for flights within TMZ (check location regulations for correct transponder code)
CHX4	4473	Used by rescue helicopter Christoph 4 (CHX4)
BALL	4474	Used by balloon flights inside EDDV CTR
UAS	4475	Used by unmanned aircraft inside EDDH, EDDV and EDDW CTR
LIB	4670	Used by police helicopters "Libelle 1" (LIB1) and "Libelle 2" (LIB2)
VDH	4672	Used by Hamburg Tower (EDDH) for VFR flights inside CTR
SSF	4673	TBC
EDHI	4675	Used by Finkenwerder Tower (EDHI) for VFR flights
HL	4677	Used by Lübeck Tower (EDHL) for VFR flights
VOUT	7001	Used for VFR traffic leaving the CTR (EDDH)
VIN	7002	Used for VFR traffic entering the CTR (EDDH)
HELI	7003	Used for helicopters inside the CTR (EDDH)
TWR	7004-7067	Used for VFR traffic inside the CTR (EDDH)
SAR	7377	Used by rescue helicopter Christoph 31 (CHX31)

FDH	7740	Used of FIS Region/Sector Hamburg (DH)
FDB	7741	Used of FIS Region/Sector Berlin (DB)
FDL	7742	Used of FIS Region/Sector Düsseldorf (DL)
FDV	7743	Used of FIS Region/Sector Hannover (DV)
FDC	7744	Used of FIS Region/Sector Dresden (DC)
FSW	7745	Used of FIS Region/Sector Hamburg Overload (SW)

Link to plugin: not available

## Arrival Manager (AMAN)

Currently used Version in Package: v3.2.0

This plugin displays every arrival to a certain airport or fix along a timeline thus enhancing the general overview for pre-planning and capacity/load management. The Arrival Manager is not able to actively pre-sequence traffic.

By default, the plugin is not loaded as only EDDB and EDDH are supported aerodromes. The Arrival Manager can be opened by entering ".aman open" in Euroscope's text line. Thereafter, the controller has to select the desired runway config in the top left of the AMAN menu. AMAN functions as a new Euroscope instance thus enabling it to be moved to another screen. You can close the AMAN in your taskbar.

Link to plugin: <https://github.com/EvenAR/euroscope-aman>

## IASsure

Currently used Version in Package: v1.5.0

This plugin enables you to directly see the current indicated airspeed and Mach number in the aircraft's label. Natively, Euroscope and Vatsim do not provide such information. All IAS and Mach values are based on calculations, which may become incorrect when pilots are not flying with real-



world and live weather data. Still, this plugin supports the virtual controller immensely.

Link to plugin: <https://github.com/MorpheusXAUT/IASsure>

## CCAMS (Centralised code assignment and management system)

Currently used Version in Package: v2.4.0

This plugin coordinates all squawk assignments on Vatsim on a centralized server. Therefore, the chance of issuing duplicated squawks is reduced significantly. Furthermore, the plugin supports the assignment of squawk code 1000 taking into account all required Mode-S rules.

Link to plugin: <https://github.com/kusterjs/CCAMS>

## VCH (Virtual Controller Helper)

Currently used Version in Package: v0.8.4

This plugin supports the controller by adding a reminder function to Euroscope. In the Departure and Startup lists, the virtual controller may select for which type of clearance a pilot is standing by. This enhances overall situational awareness and provides a better overview. Also, this plugin adds a "Cleared to Land Indicator" (CTL) which can be toggled in the aircraft's label by clicking on the actual flight level (AFL).

Note: All indicators and settings are not synchronized with neighbouring controllers.

Link to plugin: <https://github.com/DrFreas/VCH>

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