FS-FlightControl
Manual

Instructor Operator Station
for Microsoft Flight Simulator, Prepar3D and X-Plane

Table of Contents

MAP

Real-time moving map shows current aircraft position, taxiways, gates, navaids, airways with integrated flight planning optionally on street or satellite map.

General Control

Keep the left mouse button pressed to scroll around on the map. Of course, also the corresponding touch gesture is supported.

You can use your mouse wheel to zoom in and out. Again also the two finger multi-touch zoom gesture is supported.

If you keep the CTRL key pressed and then select an area, you can zoom to exactly this area.

Additional an important control action is the right click or long touch for touch screens: You can use that to trigger several actions on many elements on the map (see also *Pop-Up Menu*).

Control Elements

In the following all control elements will be explained individually.

General

The buttons on the left side of the map toggle the display of various map layer whereas the buttons on the right side can be used to perform different actions.

If a button is displayed in white this layer or action is currently inactive.

A orange color shows a partly active layer or action. This mean for example that the structure of a layer (like a runway) is displayed, but not a corresponding text (like the runway ident).

Note: Not all layers and actions have a partly active state.

And if the button is in green this layer or action is currently active.

Aircraft Layers

`User` toggles the display of the user aircraft. In partly active state only the aircraft itself is displayed and in full active state additionally the current altitude as flight level as well as the indicated airspeed and true heading direction separated with a T is displayed.

`AI Aircraft` toggle the display of AI aircraft generated by flight simulator. In partly active state only the AI aircraft themselves are displayed and in full active state additionally the AI aircraft type, the current altitude as flight level as well as the indicated airspeed and true heading direction separated with a T is displayed.

📕 Note: Please keep in mind that flight simulator only simulates AI aircraft about 70-100 NM around the user aircraft. Therefore no AI aircraft will be displayed on the map outside of this area.

`VATSIM` toggle the display of pilot and ATC users of the VATSIM (Virtual Air Traffic Simulation) network. In partly active state only the VATSIM users themselves are displayed and in full active state additionally some textual information about the user next to it. Hovering with the mouse cursor over this button will show the time of the last update.

`IVAO` toggle the display of pilot and ATC users of the IVAO (International Virtual Aviation Organization) network. In partly active state only the IVAO users themselves are displayed and in full active state additionally some textual information about the user next to it. Hovering with the mouse cursor over this button will show the time of the last update.

`PilotEdge` toggle the display of pilot users of the PilotEdge network. In partly active state only the PilotEdge users themselves are displayed and in full active state additionally some textual information about the user next to it. Hovering with the mouse cursor over this button will show the time of the last update.

📕 Note: VATSIM and IVAO cannot be combined with the button `AI Aircraft`, but `PilotEdge` can. For the latter `AI Aircraft` toggles the display of PilotEdge drone aircraft.

Object Layers

`Airport` toggles the display of the airport symbols. In partly active state only the airport symbols themselves are displayed and in full active state additionally the airport ICAO code.

Runway toggles the rendering of the runway surfaces. In partly active state only the runway surfaces themselves are displayed and in full active state additionally the runway idents on both sides of the runways.

ILS toggles the rendering of the ILS beams. In partly active state only the ILS beams themselves are displayed and in full active state additionally the ILS idents.

`Axis` toggles the rendering of the runway axes - a dotted line from the runway start. There is no partly active state available for this layer.

`Marker` toggles the display of the marker symbols. In partly active state only the marker symbols themselves are displayed and in full active state additionally the marker types (outer marker (OM), middle marker (MM), inner marker (IM), back course marker (BC)).

`Taxi/Park` toggles the display of the taxiway, apron and park area surfaces. In partly active state only the surfaces themselves are displayed and in full active state additionally the taxi point and parking names.

VOR/DME toggles the display of the VOR/DME symbols. In partly active state only the VOR/DME symbols themselves are displayed and in full active state additionally the VOR/DME idents.

NDB toggles the display of the NDB symbols. In partly active state only the NDB symbols themselves are displayed and in full active state additionally the NDB idents.

`Airspace` toggles the display of airspace boundaries. In partly active state only the airspace boundaries themselves are displayed and in full active state additionally the airspace names.

Airway and Waypoint Layers

`Airway High` toggles the display of high (jet) airways together with their connecting waypoints. In partly active state only the airways and waypoints themselves are displayed and in full active state additionally the airway names and waypoint idents.

`Airway Low` toggles the display of low (victor) airways together with their connecting waypoints. In partly active state only the airways and waypoints themselves are displayed and in full active state additionally the airway names and waypoint idents.

`Waypoint` toggles the display of all waypoints including waypoints not connected to any airways. In partly active state only the waypoints themselves are displayed and in full active state additionally the waypoint idents.

Other Layers

`Weather Station` toggles the display of weather stations. In partly active state only the weather stations themselves are displayed and in full active state additionally the weather station ICAO codes.

`User POI` toggles the display of user points of interest (POI). In partly active state only the points of interest themselves are displayed and in full active state additionally the points of interest names.

Background Types

If no background type is selected the map is displayed on a plain surface colored in black.

`Street Map` switches the map background to a street map.

`Satellite Map` switches the map background to a satellite map.

`Height Map` switches the map background to a height map which displays the ground level

elevation.

Find Object

Find Object shows the ***Find Object*** dialog.

Flight Plan Mode

Flight Plan Mode enables or disables the flight plan mode.

FS-FlightControl: Flight Plan		? X	
Depart. Airport: **Hamburg (EDDH)**		Rwy.: **15**	
Arrival Airport: **Munich (EDDM)**		Rwy.: **26R**	
Next Waypoint: **DH202** Dist.: **5.85 NM**		ETE: **00:03:26**	
Total Remain.: Dist.: **437.61 NM**		ETE: **04:17:39**	

Airway	Waypoint	True/Magnetic	Distance
SID: IDEK6D	DH202	153°/152°	6.29 NM
SID: IDEK6D	DH216	206°/204°	3.43 NM
SID: IDEK6D	DH220	257°/255°	17.45 NM
SID: IDEK6D	IDEKO	187°/185°	27.12 NM
N850	NIE	187°/186°	22.27 NM
N850	ROBEG	189°/188°	23.83 NM
N850	PIROT	186°/185°	10.88 NM
N850	LARBU	189°/188°	10.20 NM
N850	WRB	188°/186°	23.00 NM
UN850	RANAX	188°/186°	18.07 NM
UN850	EDEGA	188°/187°	10.45 NM
UN850	AMETU	188°/186°	12.21 NM
UN850	SOGMI	188°/186°	18.50 NM
UN850	BOMBI	188°/186°	28.50 NM
T104	HAREM	138°/136°	35.45 NM
T104	ELMOX	131°/130°	21.31 NM
STAR: ELMO1D	PIGAB	132°/130°	16.70 NM
STAR: ELMO1D	DKB	132°/130°	5.00 NM
STAR: ELMO1D	LEVBU	133°/132°	11.83 NM
STAR: ELMO1D	ANORA	134°/132°	4.99 NM
STAR: ELMO1D	BURAM	134°/132°	21.97 NM
STAR: ELMO1D	DM421	138°/136°	22.72 NM

This dialog is displayed as long as the flight plan mode is enabled. The displayed flight plan tables has the same functionality as on the **Flight Plan** module.

Only as long as the Flight Plan Mode is enabled flight planning functions are shown in the **Pop-Up Menu**. You can for example right-click on any waypoint on the map and easily add it to your flight plan.

Zoom Options

`Auto Zoom` enables or disables the automatic zoom based on the current aircraft altitude above ground.

🔳 Note: The automatic zoom feature can be configured on the ***Settings*** module.

`Zoom +` zooms in and `Zoom -` zooms out.

Aircraft Options

`Center Aircraft` centers the map on the current aircraft position.

`Trace Aircraft` enables or disables the drawing of an aircraft trace line.

`Repositon Aircraft` allows you to quickly reposition the aircraft. After this action is activated the next click on the map will open the reposition aircraft dialog below. To cancel the repositioning action again just click a second time on this button.

Reposition Aircraft
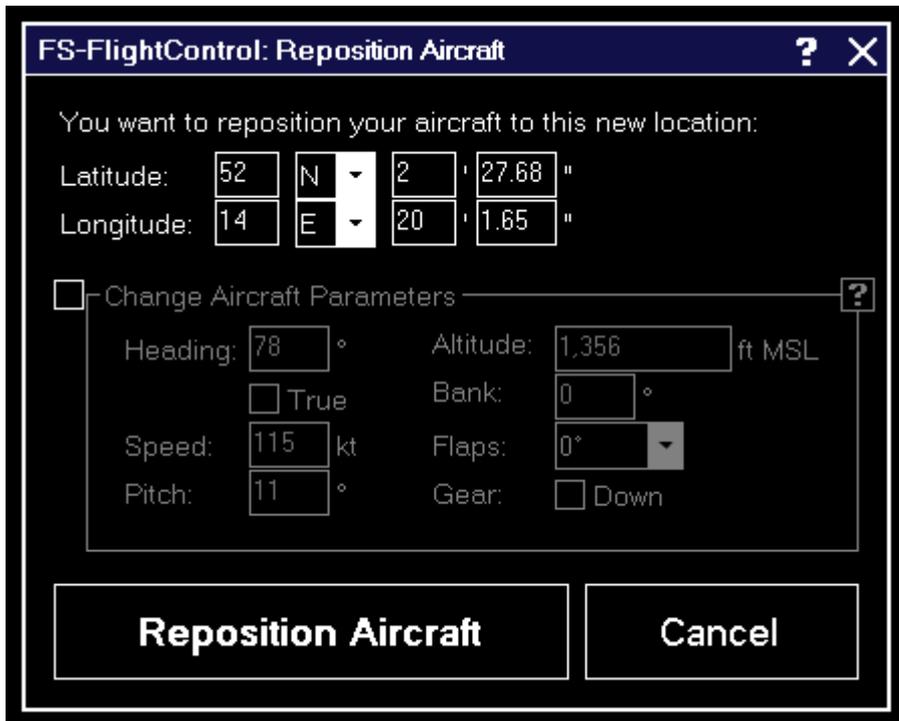
After you initiated an aircraft repositioning this dialog is displayed.

First you can change the new location (latitude and longitude) manually if you want.

To change the other parameters just enable the `Change Aircraft Parameters` checkbox.

Change Aircraft Parameters
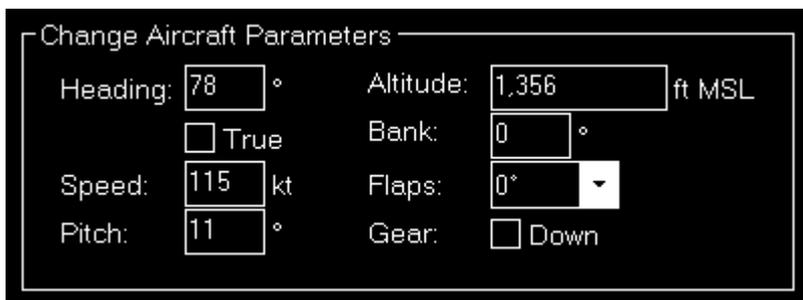
All other aircraft parameters like heading, altitude, speed, pitch and bank angle are pre-filled with the current aircraft values.

Other Options
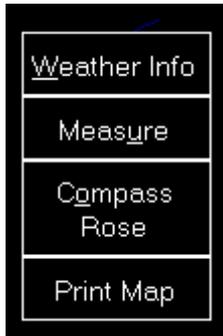
`Weather Info` toggles the display of a wind arrow in the top center of the map:

In partly active state only the wind arrow itself is displayed.

In full active state additionally the current wind true direction and speed is displayed.

Below that you see the current visibility range. If the visibility unit is set to meters (which is the default) in the **Settings** module no unit is displayed as that is also the default for the METAR information. In case you have chosen a different unit this unit will be displayed as well.

To the right of the visibility information you see the outside air temperature.

And finally below that the current QNH is shown.

`Measure` allows you to quickly measure the distance between two points on the map. After this action is activated first click on the start and then on the end point. Now the distance between these two points together with the true heading from the first to the second point is displayed.

If the start or end point is a moving object (like the user or AI aircraft) the measure arrow will move together with the objects and update accordingly. Additionally, it will show the time en-route based on the ground speed of the first object.

`Compass Rose` toggles the display of a compass rose around the aircraft.

`Print Map` allows you to print the current map view.

🔹 Note: You can define the used printer in the **Settings** module; same goes for the used color schema used for printing.
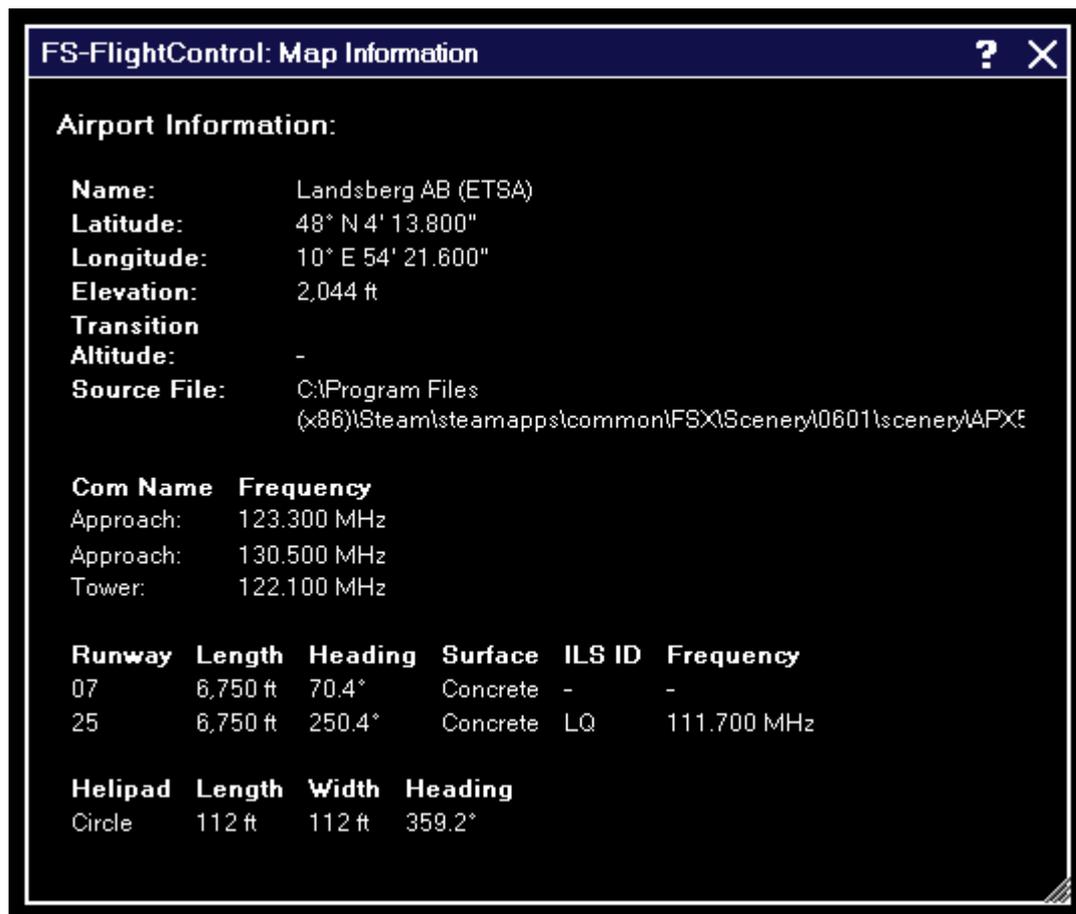
Pop-Up Menu
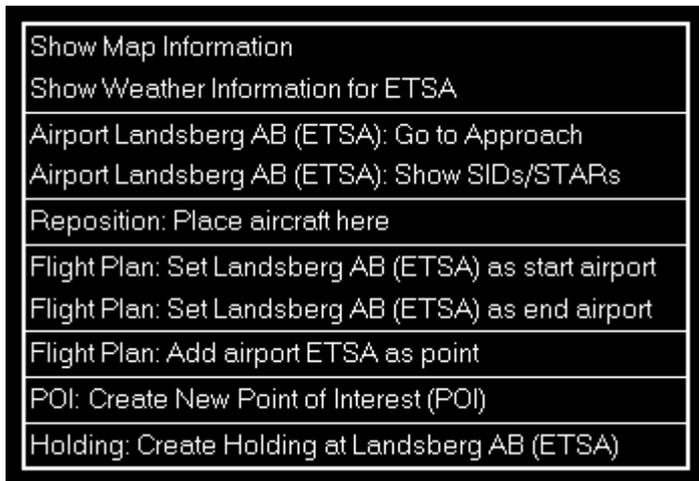
After you right-clicked (long touch) on any point of the map this pop-up menu will open.

The displayed menu items depend on the location where you right-clicked, the activated layers and if the **Flight Plan Mode** is active or not.

Map Information

Using the menu item `Show Map Information` will open this pop-up window showing detailed information about all nearby facilities.
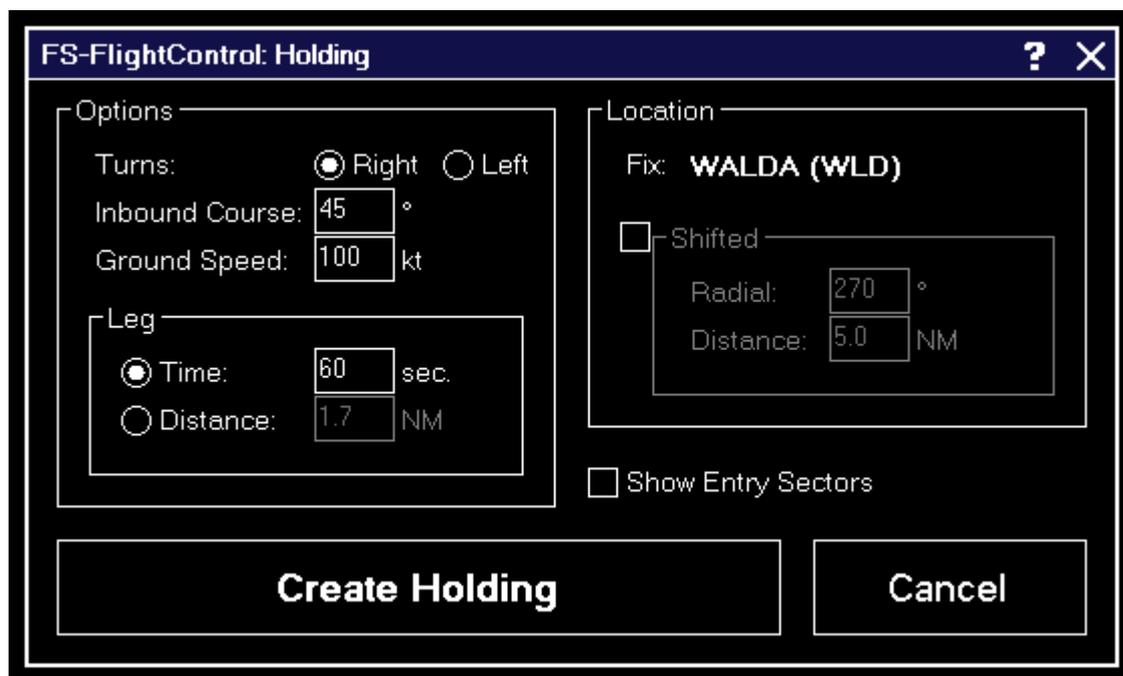
Create New Point of Interest (POI)
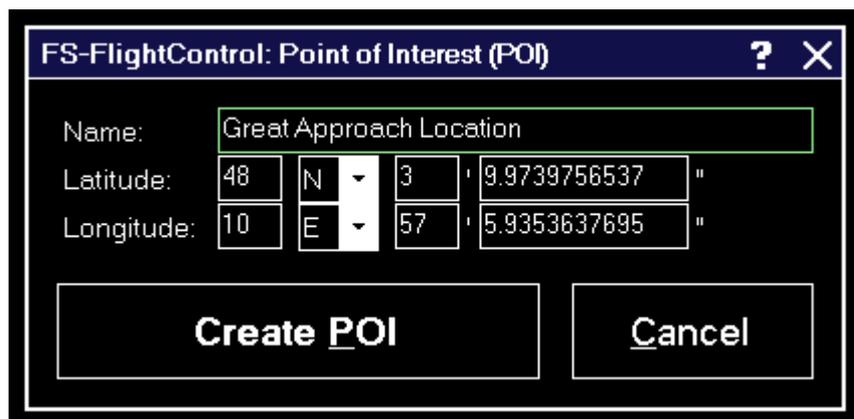
You can create a new point of interest (POI) at any map location.

Just enter a name for it here and if you want you can also change the exact location manually.

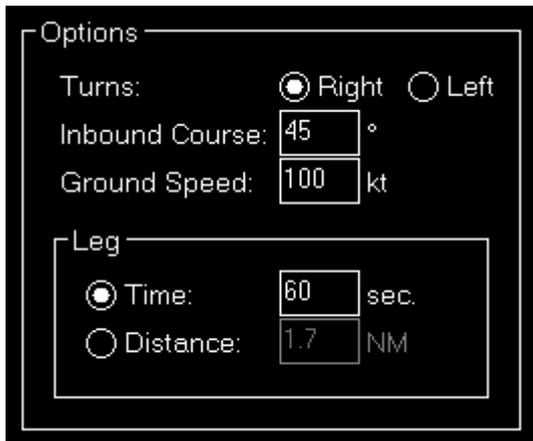This point can later be used for example as a flight plan point.

Holding

You can display a holding at any point (like a VOR, NDB, POI or other fixes) on the map.

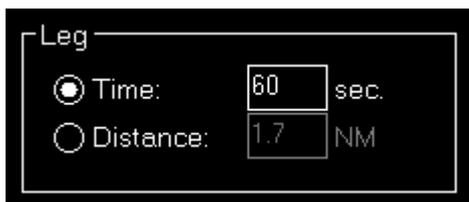There is also an option to show the entry sectors of the holding.

Options

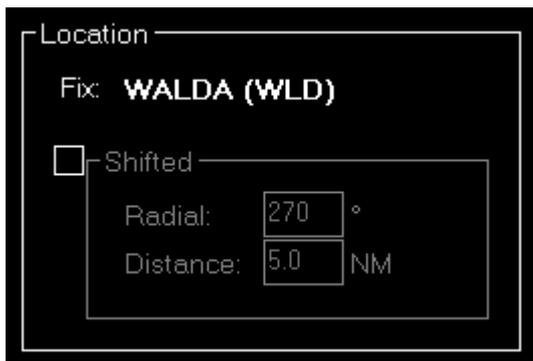The holding can be a right (standard) or left (non-standard) holding.

Set the inbound course and the ground speed you expect to fly the holding: The latter will determine the turning radius.
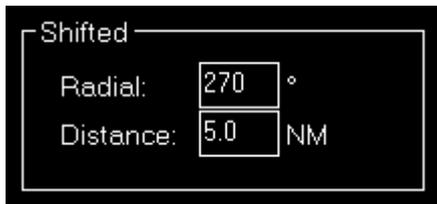
Leg

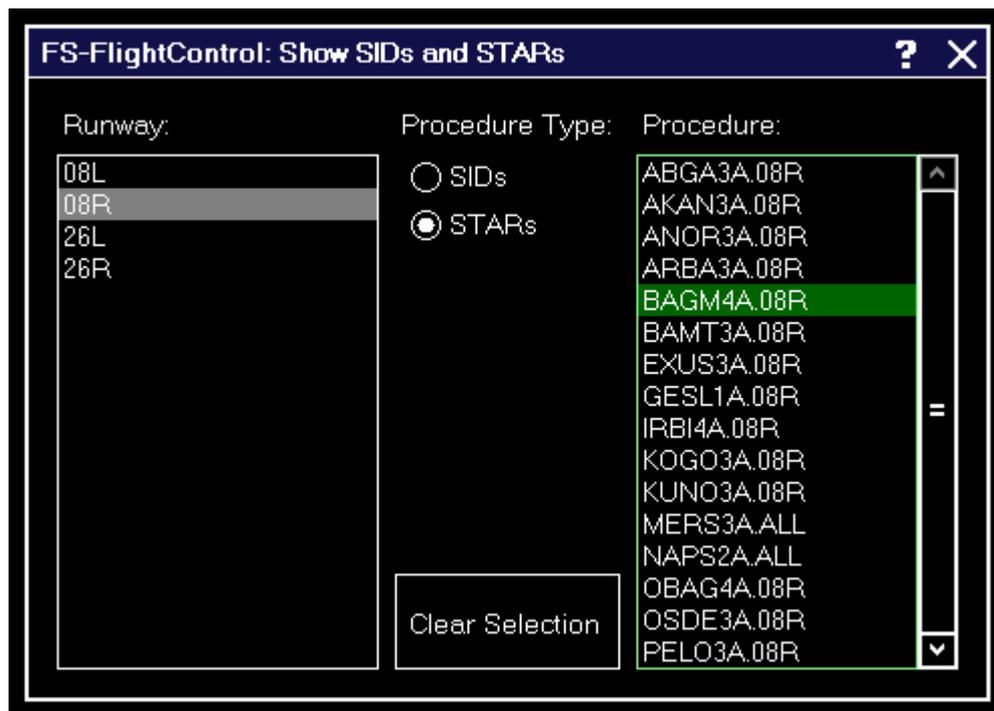The holding leg can be defined either by time or distance.

Location

You can see here the fix you have selected for the holding.

Shifted

Optionally it is possible to shift the holding away from this fix on a certain radial for a certain distance.

Show SIDs and STARs

Show any Standard Instrument Departure (SID) or Standard Terminal Arrival Route (STAR) procedure on the map.

Therefore first select the corresponding runway, then the type of the procedure you want to see and finally the procedure itself.

Afterwards the procedure selected is immediately displayed on the map.

To remove the displayed procedure from the map again, use the button `Clear Selection`.

Footer Information

In the footer of the map some additional information can be displayed.

You can choose what is displayed there in the **Settings** module.

Cursor Position

48° N 20' 36.115", 11° E 43' 43.480"

In the bottom left of the map the current mouse cursor position can be displayed.
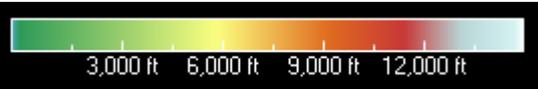
Frames per Second

19.71 fps

In the bottom center of the map the current frames per second can be displayed.

Map Scale

21 NM

In the bottom right of the map you can always see the current map scale.

Height Map Legend

3,000 ft   6,000 ft   9,000 ft   12,000 ft

If the height map is displayed you will find a color legend in the bottom right of the screen.
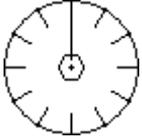
Icons Legend

In the following all icons used on the map are explained.
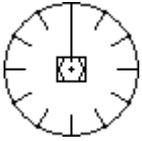
NDB

◎

This shows a NDB (Non-Directional Beacon).

VOR

This shows a VOR (VHF Omnidirectional Radio Range).

And this a VOR that includes a DME (Distance Measuring Equipment).

DME

This shows a DME only.

TACAN

This shows a TACAN (Tactical Air Navigation).

FS-FlightControl Manual:
https://www.fs-flightcontrol.com/en/manual/

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