FS2020: create your flight plan with the "Navigraph Charts ingame Panel" mod

If you have a Navigraph subscription, you can load, create and follow a flight plan in a FS2020 "popup" window accessible from the menu at the top of the simulator window. Convenient for those who only have one screen (for others too). As with all flight plans, SIDs, STARs are not transmitted to FMS and other Garmin, but since they are prepared, adding is simplified.

Preriquisite :
- have a Navigraph subscription.
- have loaded the "Navigraph Charts ingame Panel" plugin and validated it with its codes (via the "Navigraph Navdata Center" application).
- be up to date with Navdata data (not mandatory, but more realistic).

Three possibilities are provided in the mod:
- you can create your flight plan in advance on your PC with the Navigraph Charts application or any other application such as Simbrief, Little Nav Map, Aivlasoft or Route Finder
- you can also use the MSFS world map flight plan generator
- but you can also create your flight plan directly in the plugin without going through the world map, while you are already on the plane.
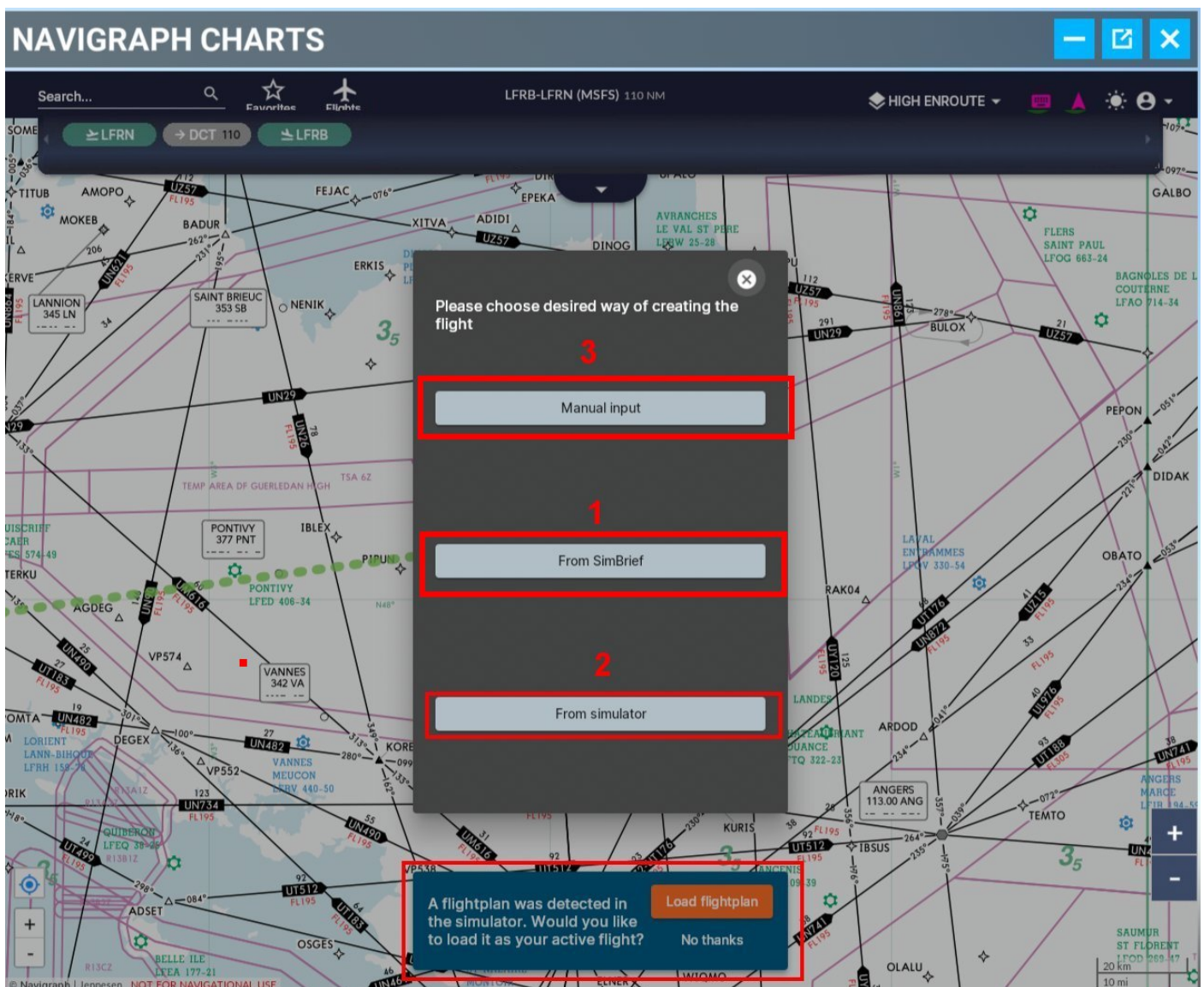
NB: the "Navigraph Charts" application and the "Navigraph Charts ingame Panel" popup are identical, the first is done outside FS2020, the other is only done in FS2020.

Simbrief is a Navigraph product therefore fully compatible.
FBW's A320 (A32NX), loads its flight plans into the MCDU (FMS) from this product via the EFB (A32NX version 0.6.3 and later).

**Use of « Navigraph Charts ingame Panel »**

In the world map, after selecting your plane (here the A32NX), you place it on its departure station (here LFRN tarmac). Once in your cockpit, you can prepare to get started (not necessary for using the mod). you must then select the icon of the Navigraph plugin:


The mod then opens its "popup" for the introduction of its Navigraph access codes.
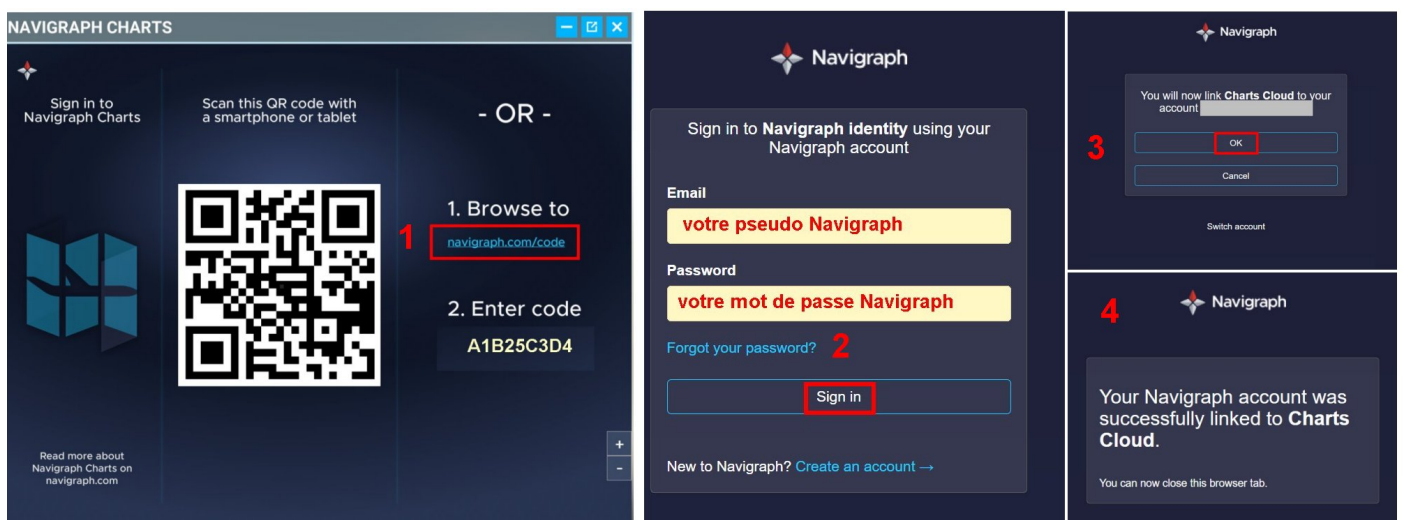
By clicking on "navigraph.com/code" you access, in your browser, and see the Navigraph identification page.
After validation, the "popup" contains the map and the position of your device. The top row may show the last flight plan used, it will be replaced by the one you are going to create.
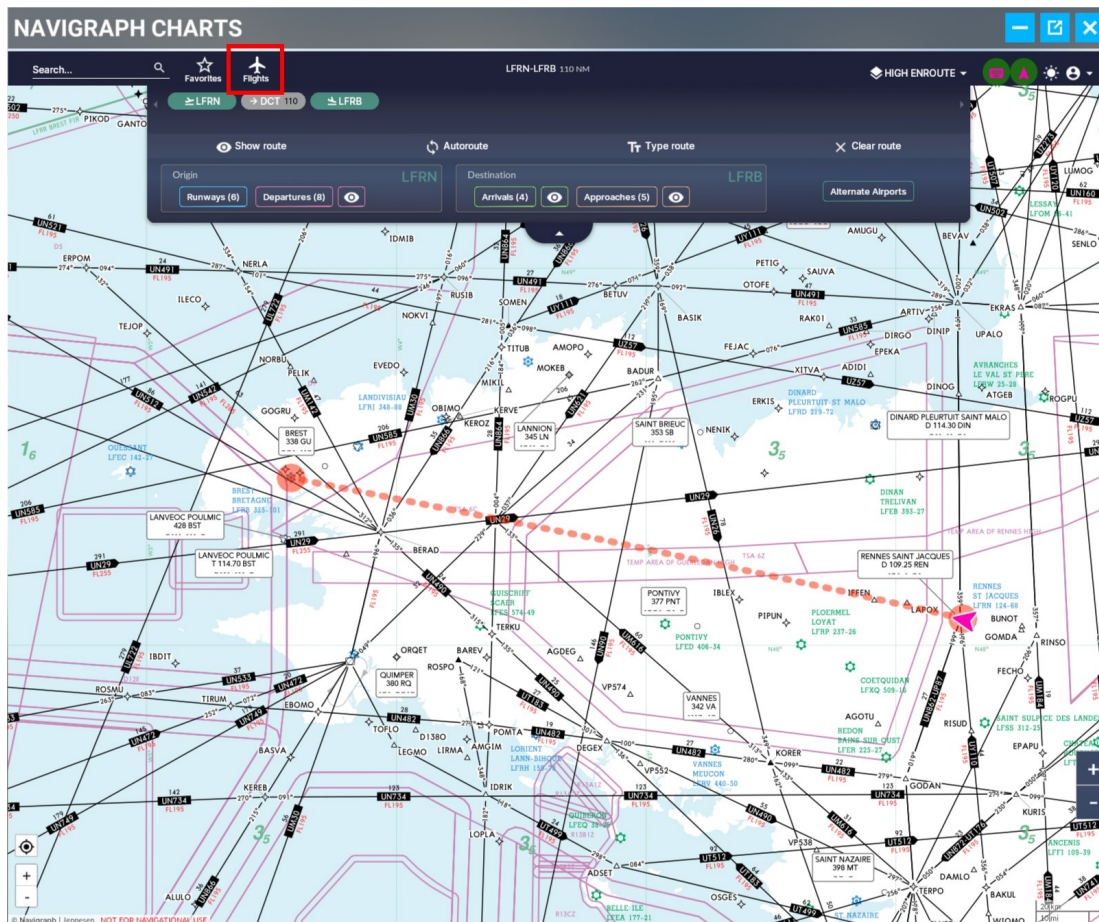
Among the possibilities provided for in the mod, we will see here the manual creation of a flight plan.
To do this, click on the "Flights" icon at the top of the window and then on "New flight".
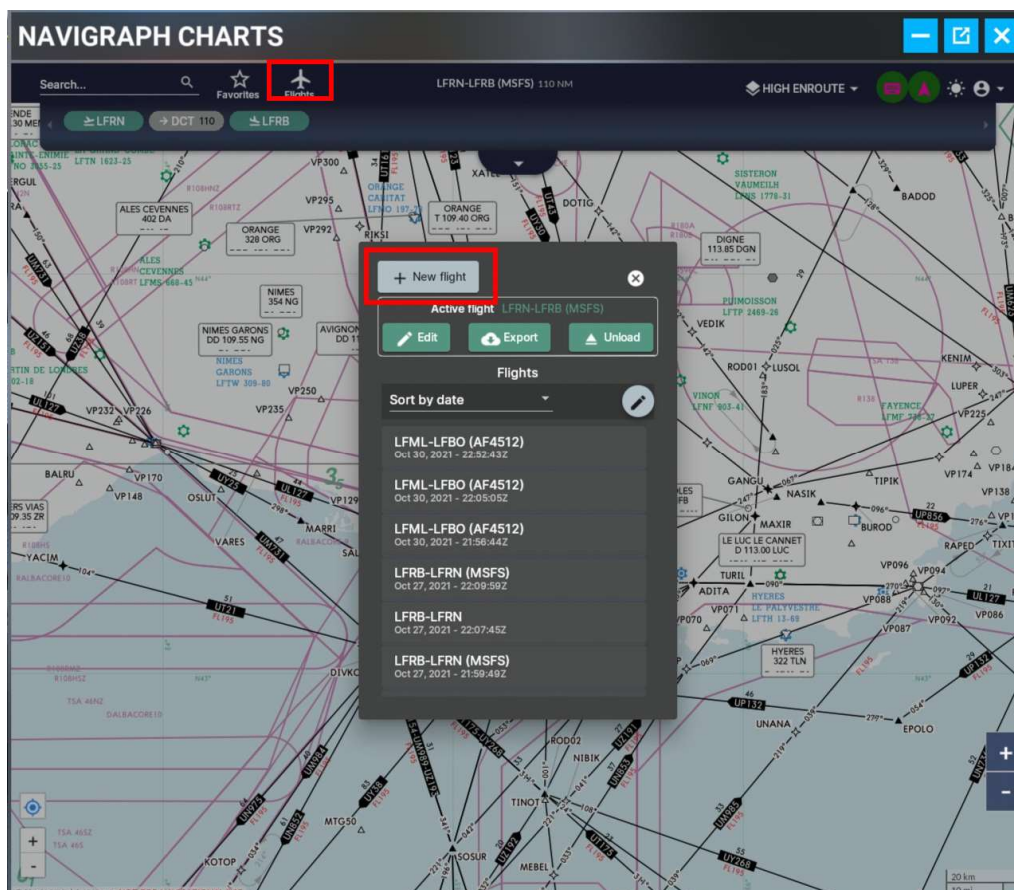

You then choose the manual entry of the flight plan.
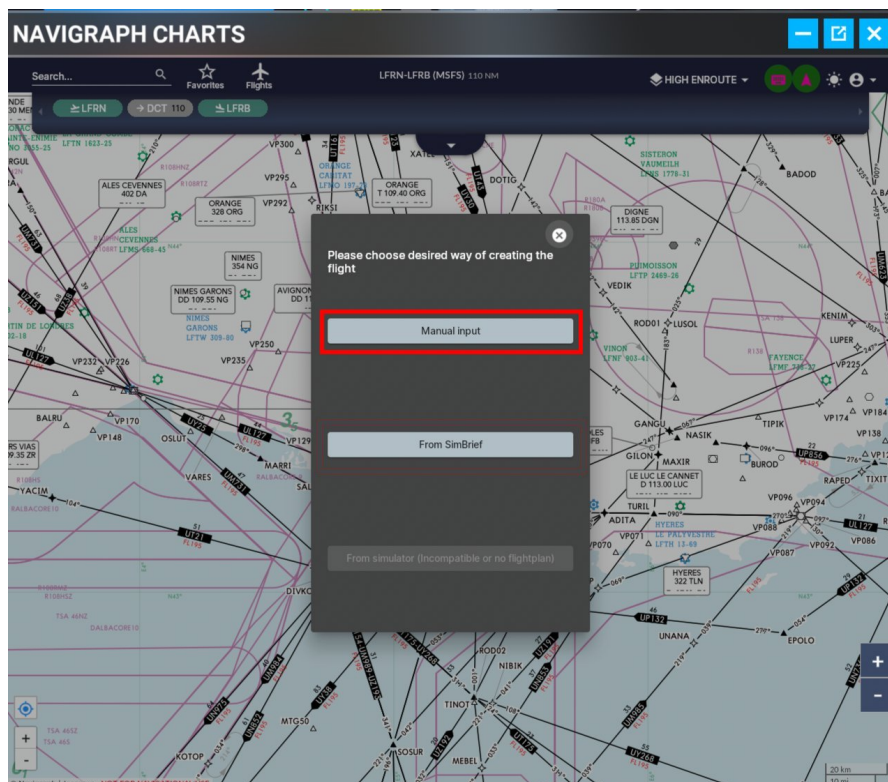
You must then provide the departure, arrival and diversion indications (optional) and check the "Auto generate my route" box before validating by clicking the "Create" button.
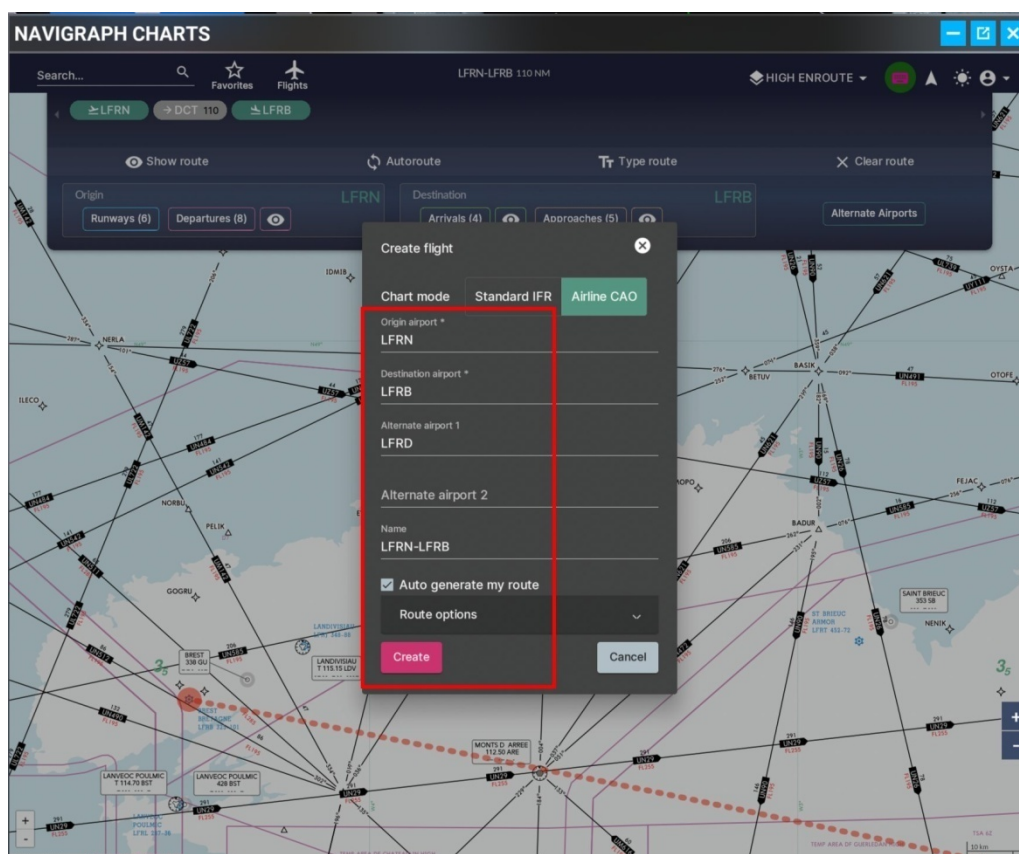
The flight plan is drafted, it must now be finalized by entering the waypoints, the departure and arrival procedures. The top menu of the popup will allow it.
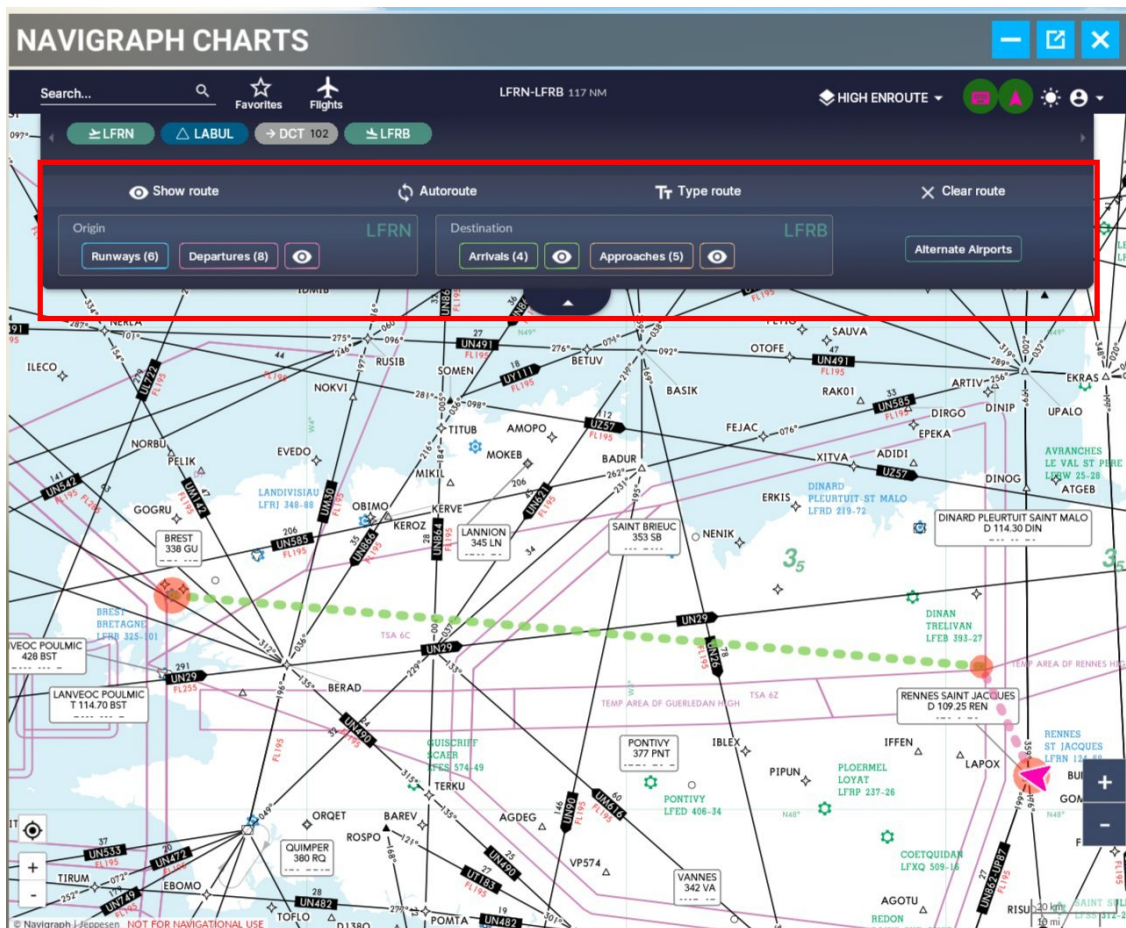
To insert a Waypoint, click on the WP which precedes it (or which follows it) and select its relative position (here "Insert after").
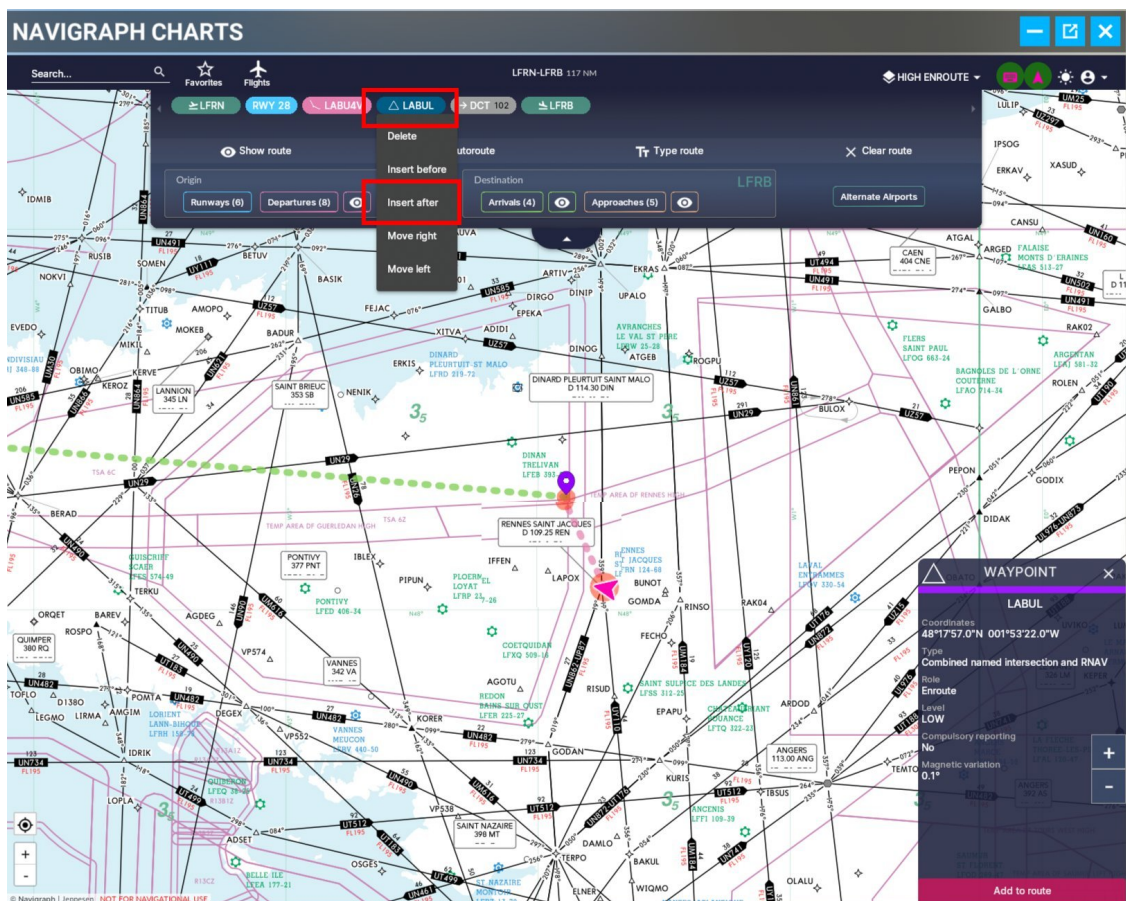
The WP is entered using the PC keyboard or the virtual keyboard (not shown in the image above).
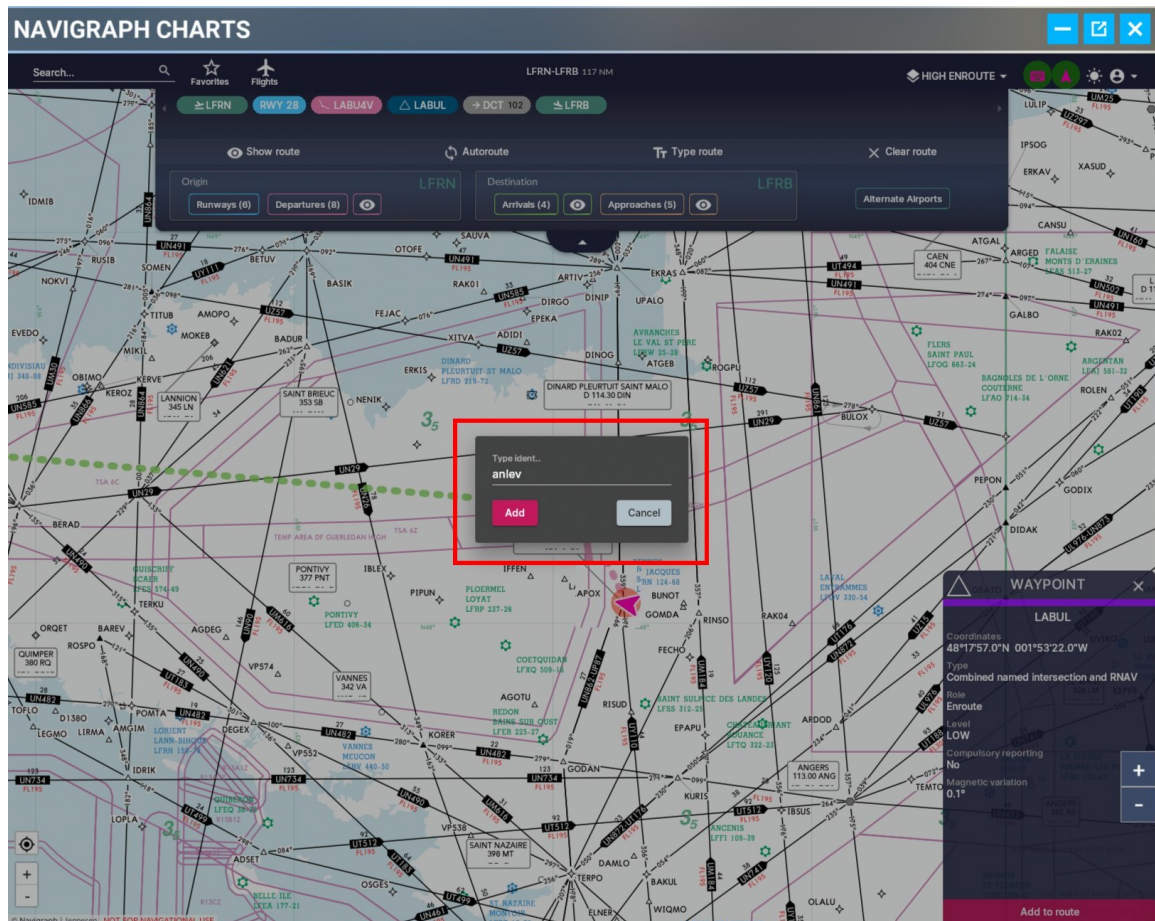
We can check the position of this WP on the map
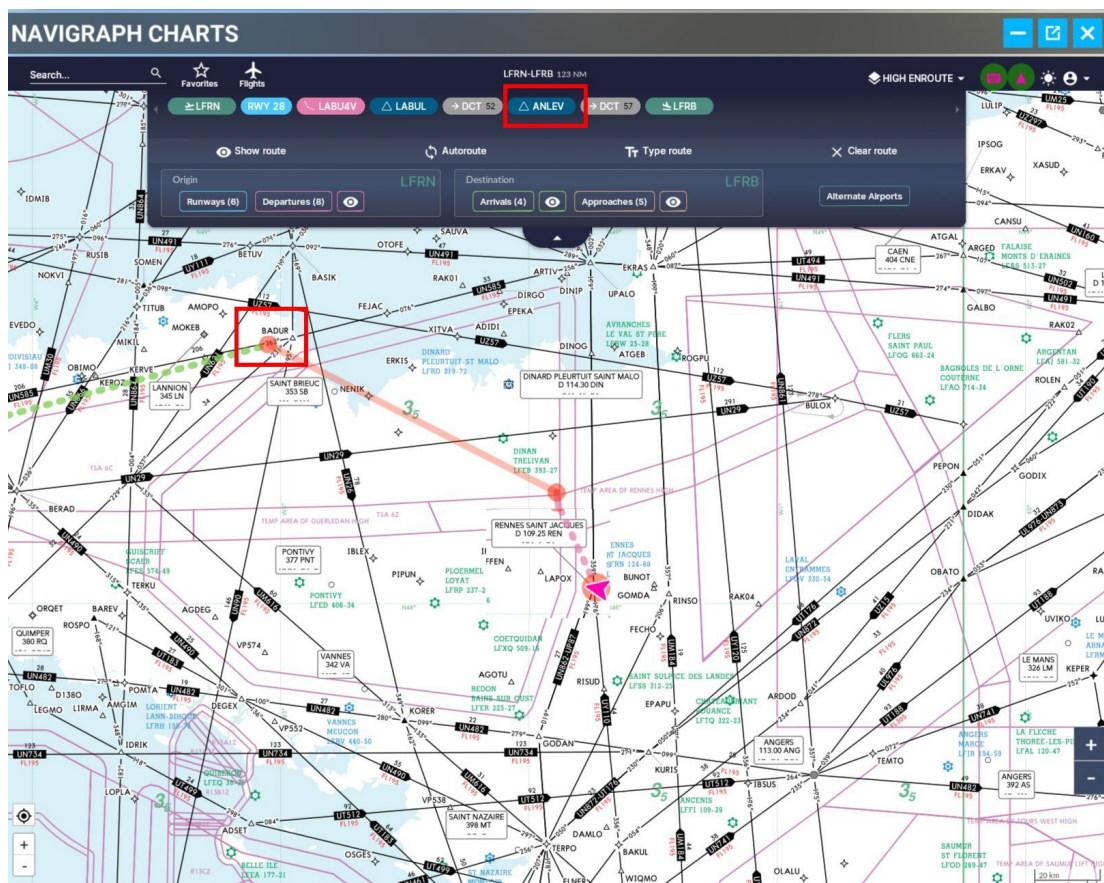
In our flight plan, there is a second WP to enter before going to procedures
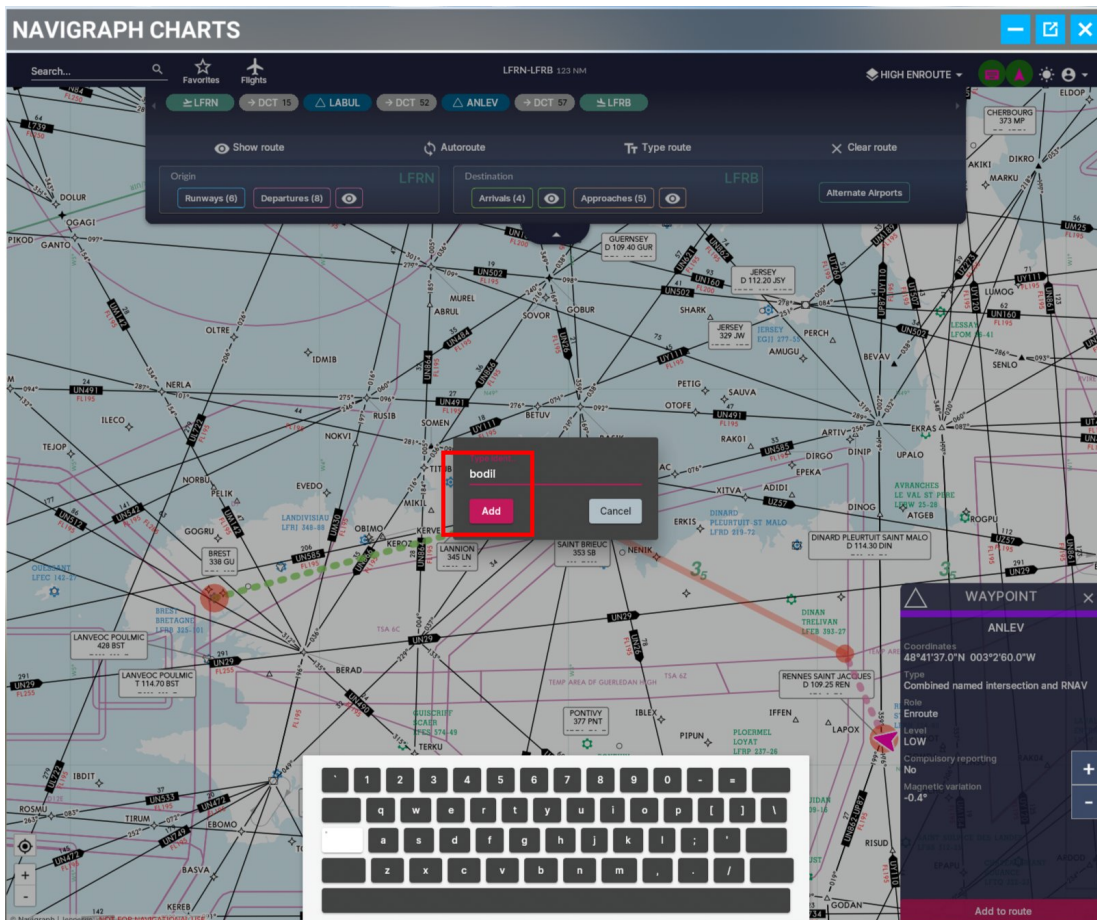
NB: the virtual keyboard is present in the image above.
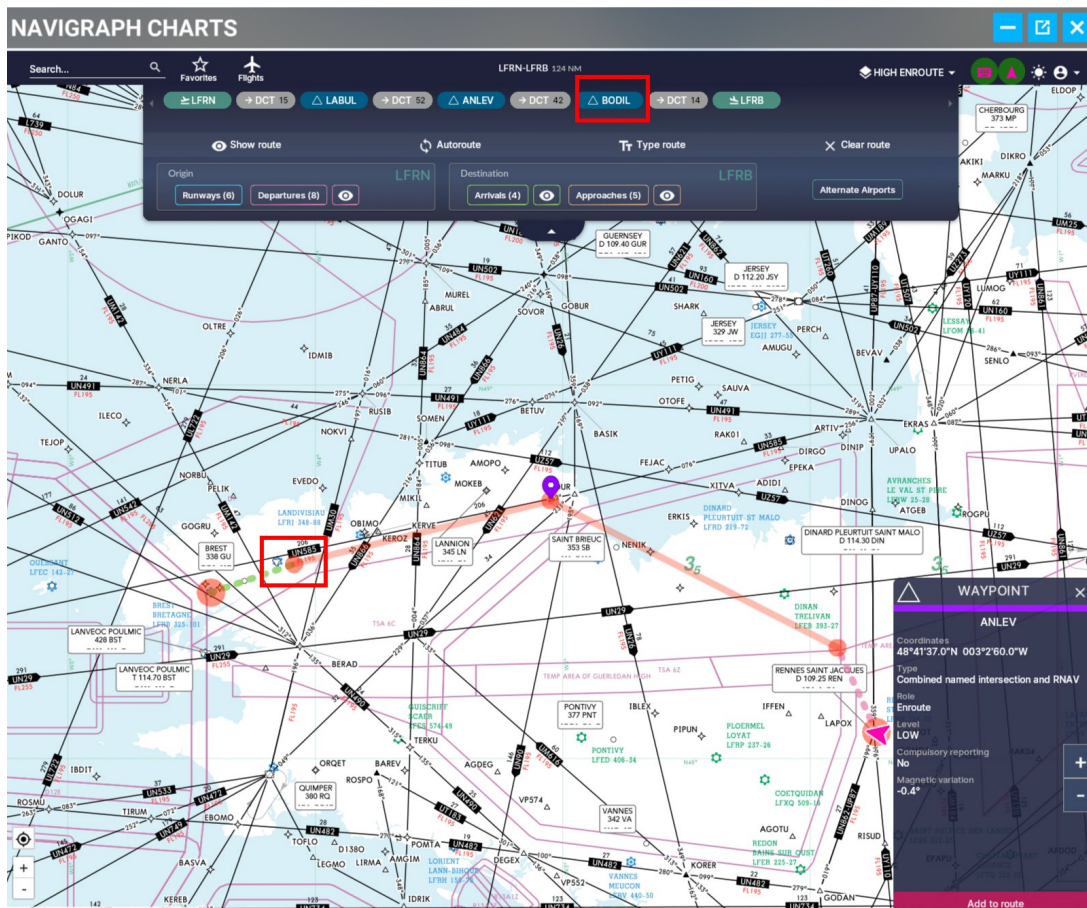
For the departure procedure (SID) we choose runway 28 (LFRN) and "LABU4V" procedure.
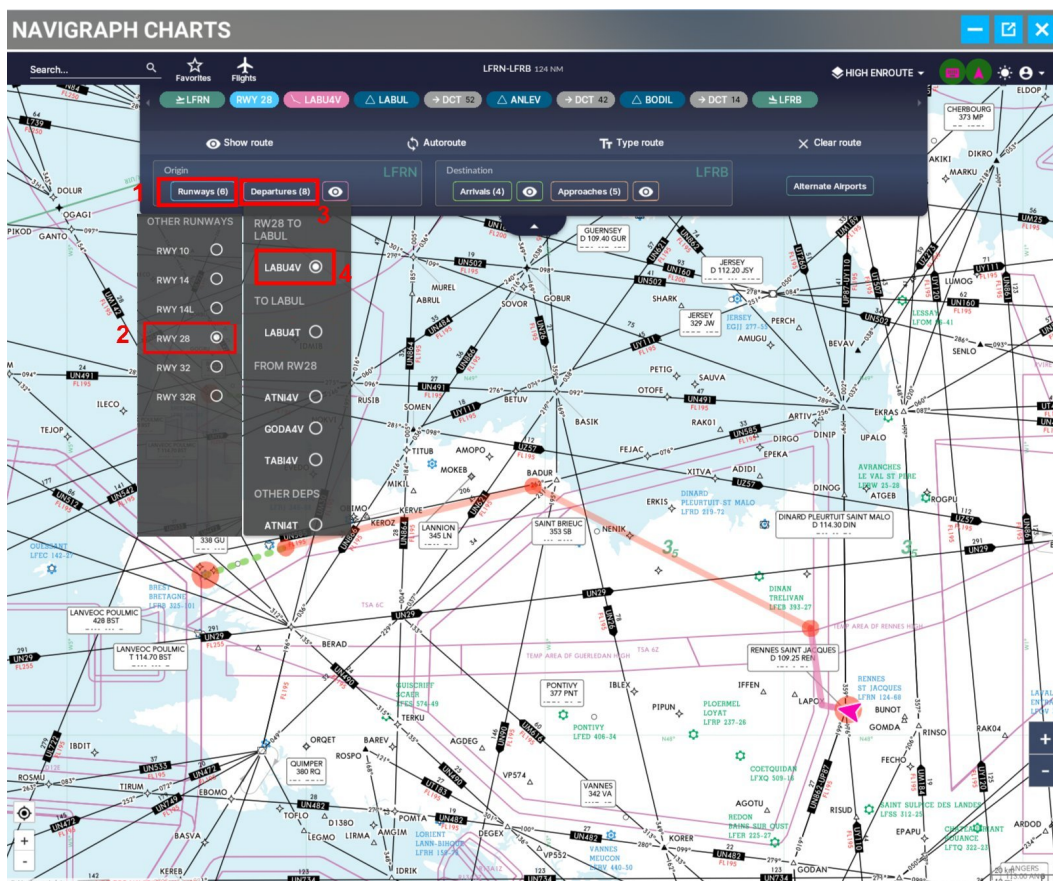
For the STAR, it will be an arrival on the ILS 25L Z via BODIL with the "ANLE8C" procedure.
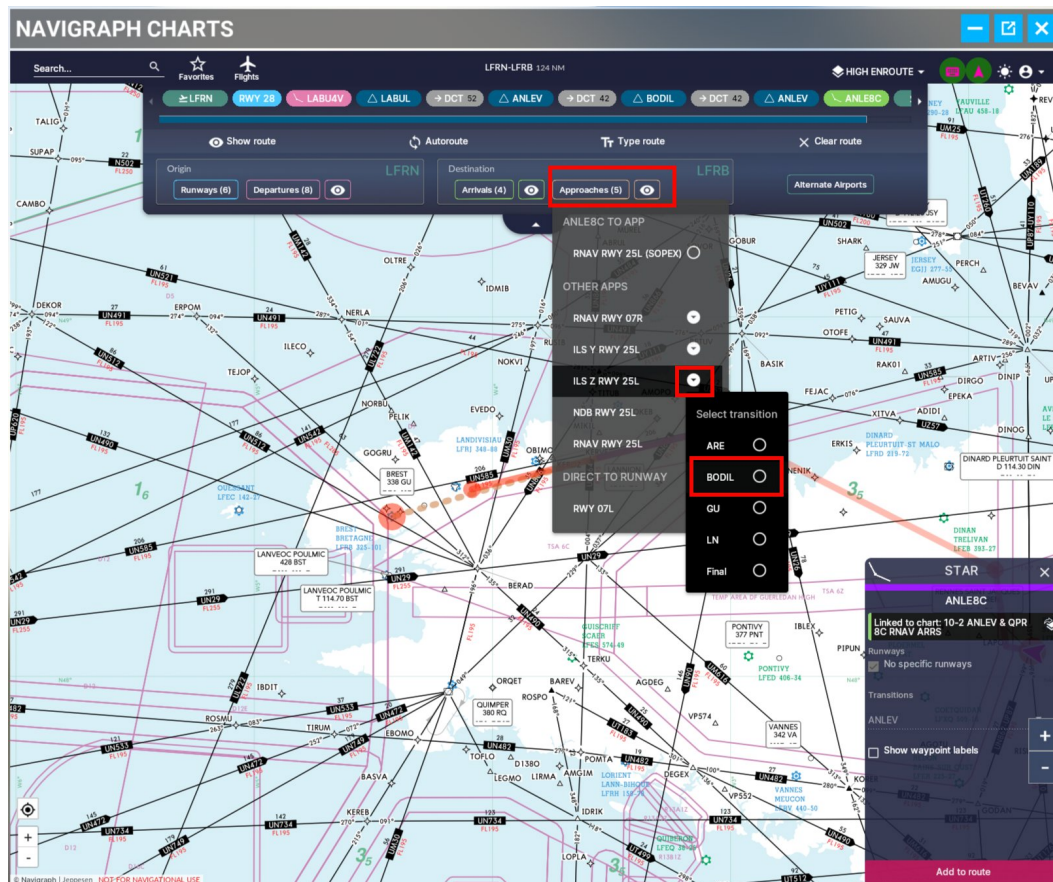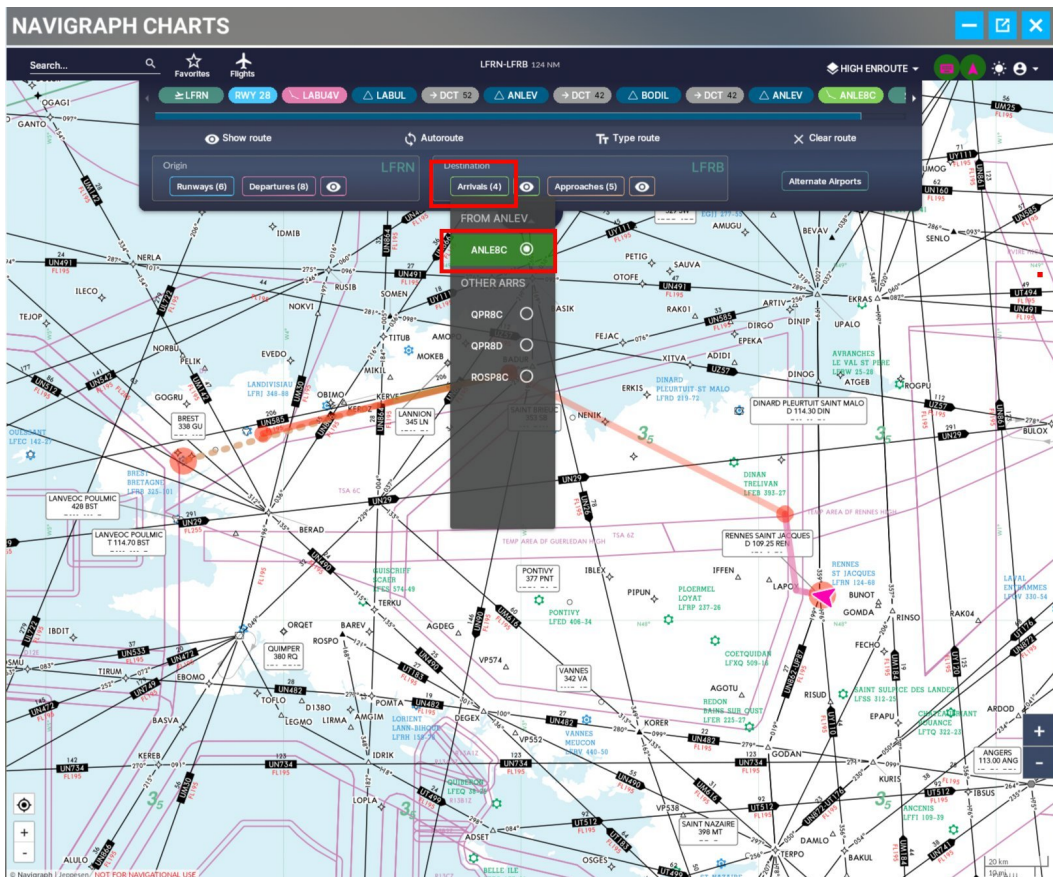
We can then check that the route is complete.

The "Navigraph Charts Ingame mod does not communicate the flight plan directly to the aircraft. For that it is necessary to go through SIMBRIEF.

First, copy the flight plan into the Windows block-note by clicking on the "Flights" icon then on "Export"
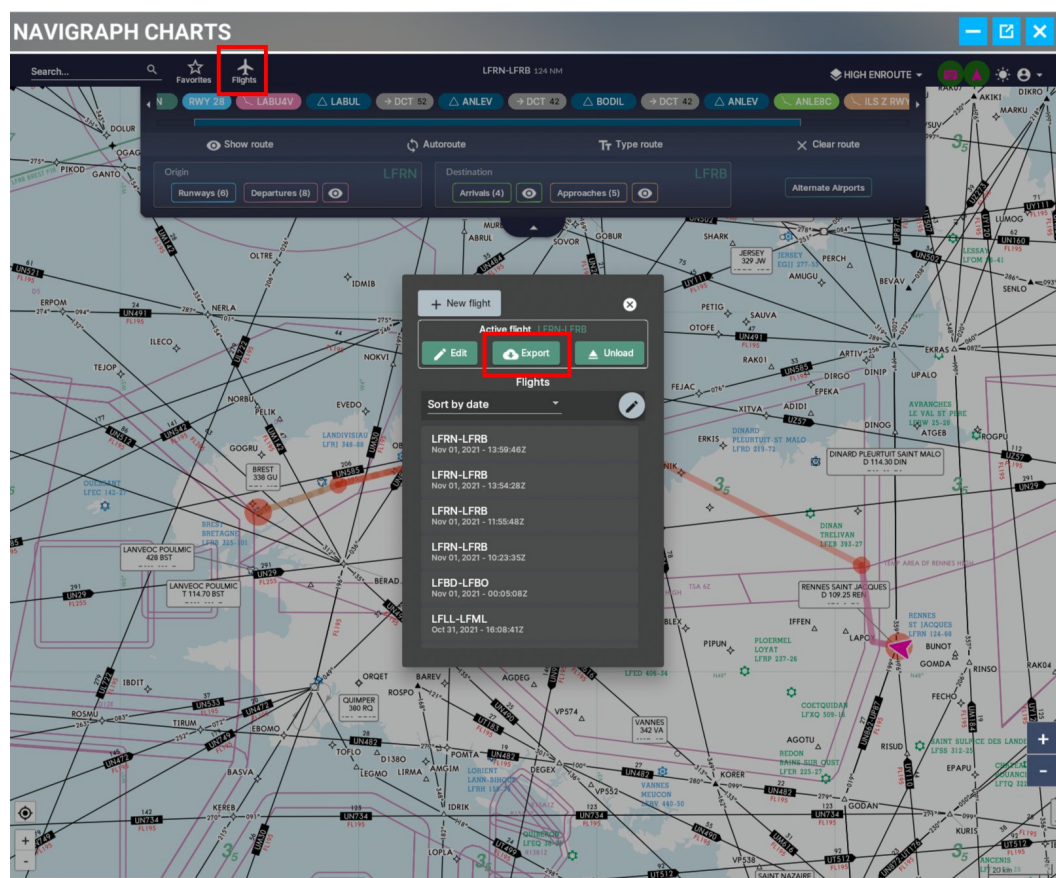
Then we select « Copy route to clipboard »
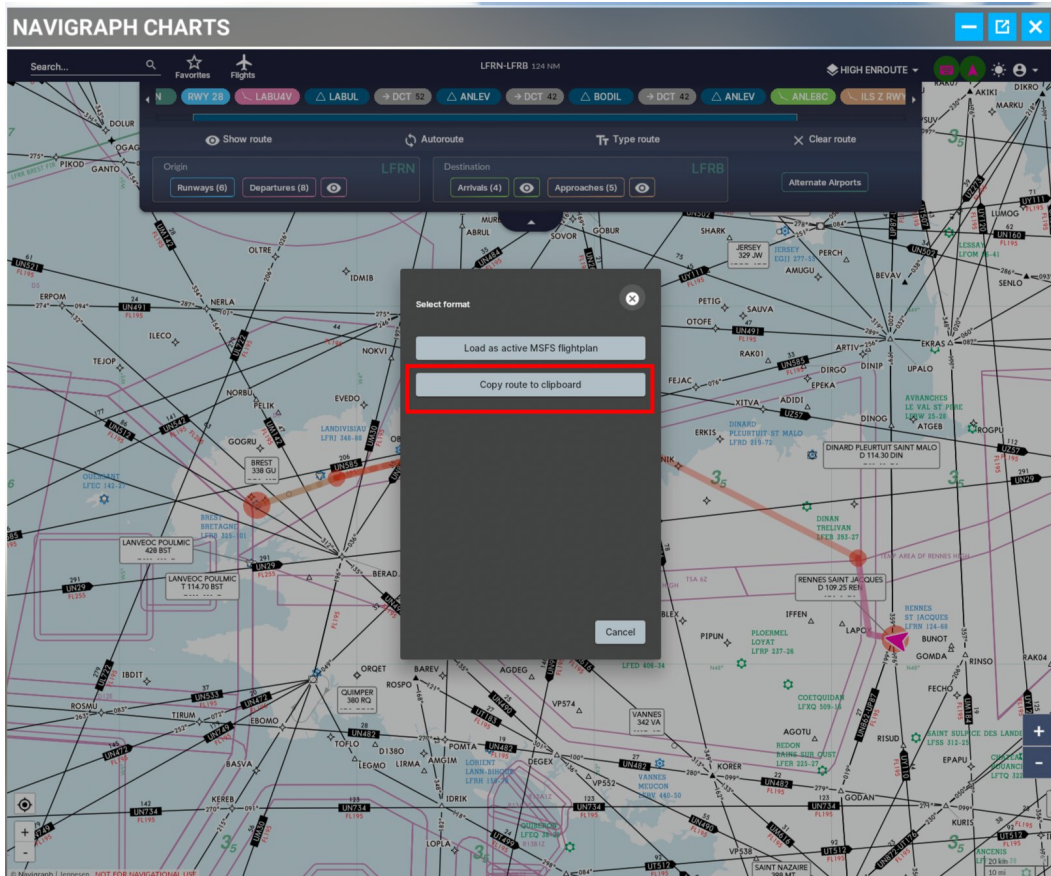
And we validate with OK

In Simbrief, do "New Flight", load the basic flight elements and, in the "Route" window, do "Ctrl + V"(keyboard) to copy the flight plan created with "Navigraph Charts Ingame".

Dispatch Options   14:10:19 UTC

GENERATE FLIGHT   NEW FLIGHT   SAVE FLIGHT   CLOSE FLIGHT

Flight Info

Airline	Flight-No.	Depart	Arrive	Alternate	Date	Depart (Zulu)
AF	1001	LFRN	LFRB	LFRD	01NOV21	14 : 40

Selections   Save Default

OFP Layout: LIDO
Units: KG

Cont Fuel: 5% or 0.
Reserve Fuel: 30 MIN

Detailed Navlog: ☑
ETOPS Planning: ☐
Plan Stepclimbs: ☑
Runway Analysis: ☑
NOTAMS: ☑
FIR NOTAMS: ☐

Flight Maps: Detailed

Aircraft Type   Sort custom airframes by: Registration

Airframe: A20N – A320NEO FBW [FLY BY WIRE]   Open Aircraft Editor

Advanced Aircraft Options

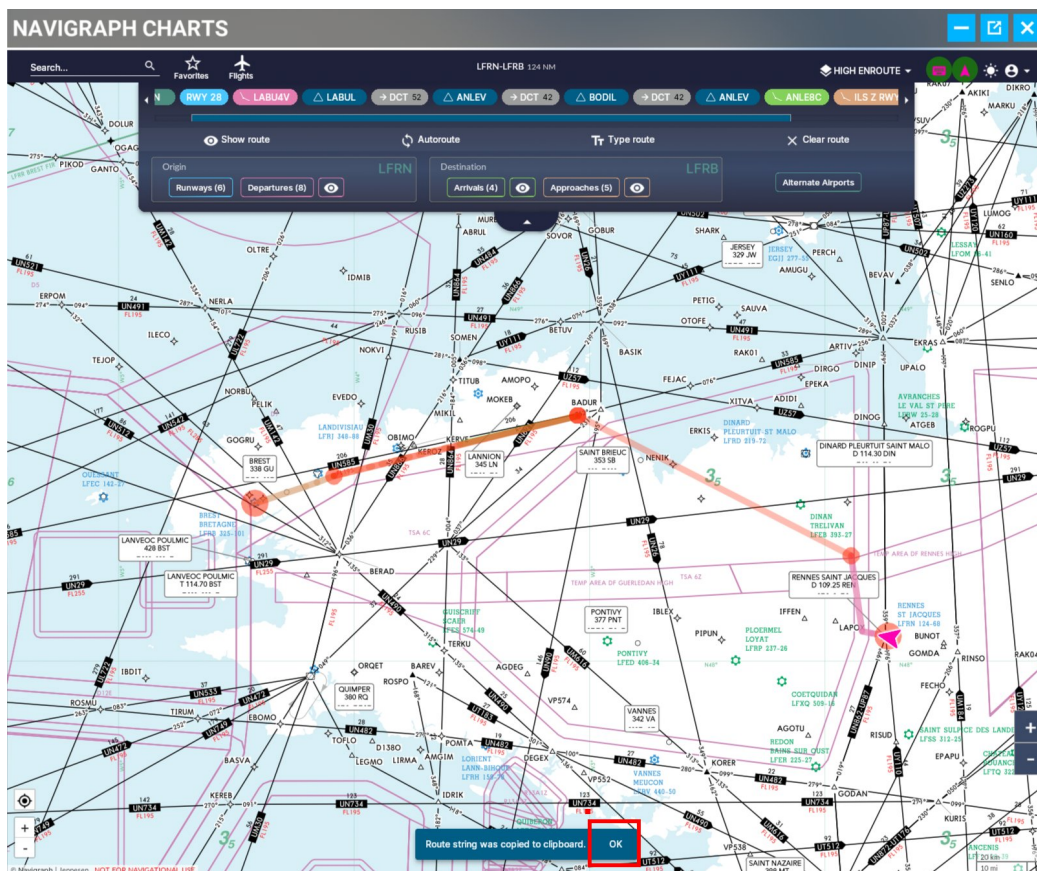| Climb Profile	Cruise Profile	Descent Profile	Fuel Factor
250/300/78	CI 10	78/300/250	P00

Registration	Fin Number	SELCAL Code	ATC Callsign
A20N	1245	NONE	AF1001

Optional Entries → (fields are automatically calculated, but can be overridden)

Sched Flight Time	Departure Rwy	Arrival Rwy	Taxi Out / Taxi In	Extra Fuel	Altitude
01 : 00	28	25L	10 / 10	0.0 KG	AUTO

Passengers	Cargo	ZFW	Dispatcher Name	Captain Name	Pilot ID
AUTO	0.0	AUTO	RANDOM	PACHA 35	170518

Dispatch Remarks

CUSTOM DISPATCHER REMARKS – SEPARATE EACH REMARK WITH A NEW LINE

AIRAC Cycle 2110 - CURRENT → (Unlock or select updated navigation data)   AIRAC Options ▼

Route (?) → FlightAware SkyVector RouteFinder GRD ed1-gla autorouter e

LFRN/28 LABU4V LABUL DCT ANLEV DCT BODIL DCT ANLEV
ANLE8C LFRB/BODIL.I25LZ

Suggested Routes (Click to use)

1. LABU4V LABUL ANLEV ANLE8C
2. LABU4V LABUL ANLEV SOPEX BODIL
3. RN804 LAPOX IFFEN IBLEX ARE MOVEX BODIL CI2LZ
4. RN804 LABUL ERKIS BADUR ANLEV ANLE8C

Analyze Route ▶

Error: Fix or airway "LABU4V" not found.
Error: Fix or airway "ANLE8C" not found.
Error: Fix or airway "I25LZ" not found.
Route distance: 208 nm (+ 89.5%).

View More Routes

But, the route analysis indicates errors, so they must be removed.

It remains to save the flight plan and generate the OFP data if we want to be able to read it directly in the EFB of the A32NX
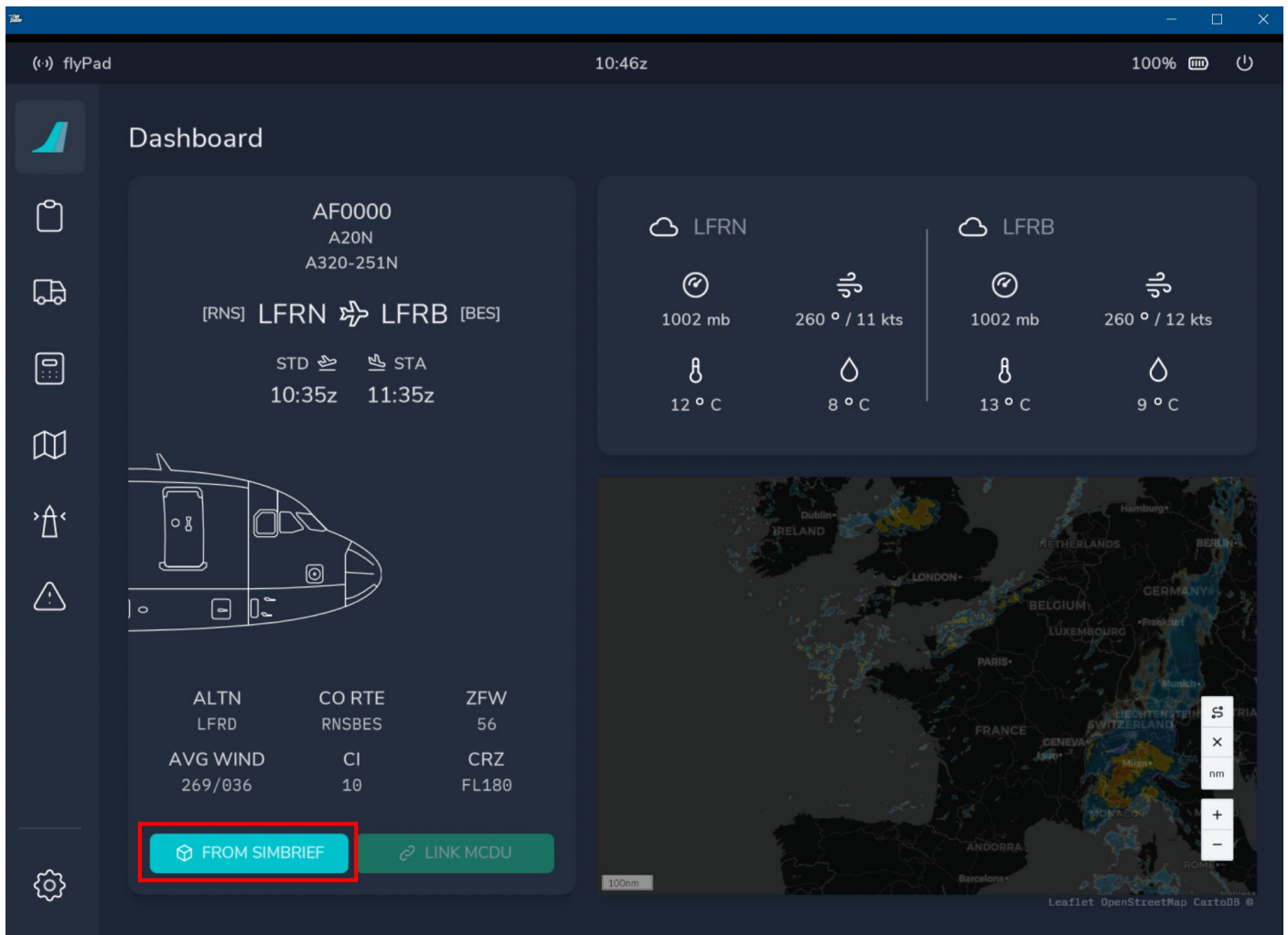
Once the flight plan is in the EFB, it is loaded into the MCDU with the INIT page

Then you have to enter the departure and arrival procedures in the FMS, but the data are those created in "Ingame".

Note from the "pro": it is the same in reality, the flight plans provided to the FMS are always without departure and arrival procedures, these being dependent on the weather conditions and the decisions of the air traffic controllers

```
FROM                AF0000  ←→
        TIME SPD/ALT
LFRN    0000 ---/ -----
             15NM
LABUL   0002 ---/ FL180
             52
ANLEV   0010 ---/    "
             20
SOPEX   0013 ---/    "
             4
(DECEL) 0013 ---/    "
 DEST    TIME   DIST EFOB
LFRB     0018    124 ---
GPS PRIMARY            ↓↑
```

```
FROM                AF0000  ←→
        TIME SPD/ALT
LFRN28  0000 ---/    125
             3NM
RN804   0000 ---/    105
             5
USR     0001 ---/* 2000
             12
LABUL   0003 ---/*    "
             52
ANLEV   0010 ---/ FL180
 DEST    TIME   DIST EFOB
LFRB25L  0020    135 ---
GPS PRIMARY            ↓↑
```
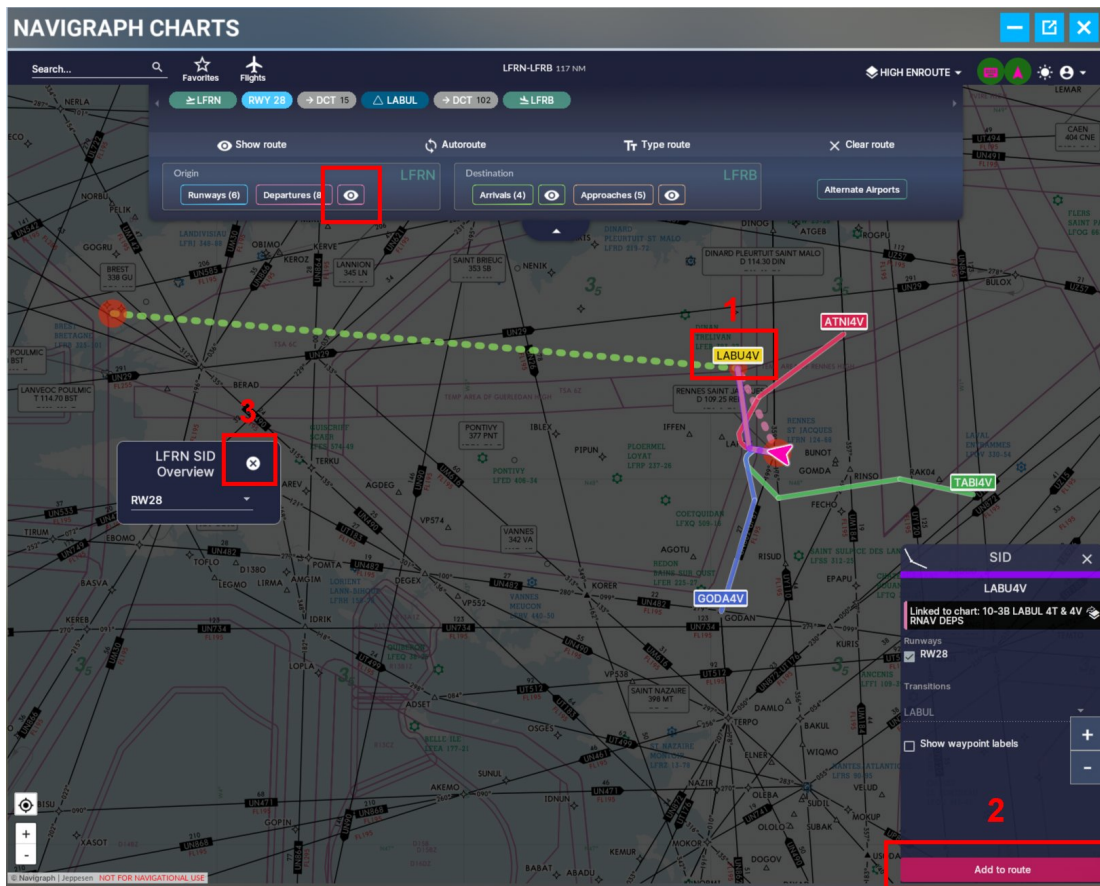
```
                    AF0000  ←→
        TIME SPD/ALT
BODIL   0017 ---/      0
             45NM
CI2LZ   0017 ---/* 3000
             2
FI2LZ   0017 ---/*    "
             9
RW25L   0019 ---/      0

LFRB25L 0019 ---/ -----
 DEST    TIME   DIST EFOB
LFRB25L  0019    128 ---
GPS PRIMARY            ↓↑
```

Everything is ready for departure.

Further information:

You can select the SIDs and STARs graphically on the "Ingame" map by clicking on "" the eye ". It's one of the very good points of Navigraph (and therefore of this mod) because you can visually choose the procedure most suited to the route you want to follow. (next image).

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