



*Passengers avoiding jetway at Gate 11*

# GSX Mapper

version 1

## Introduction

*GSX Mapper* began as a tool to help visualise the details of complex GSX profiles.

It provides a clear, intuitive display of boarding, deboarding, and walker routes for every gate or parking position and plots the location of marshals, stairs, gates etc.

It also makes it far easier to understand left and right pushback paths at a glance.

Beyond visualisation, *GSX Mapper* ranks stands by the level of detail in their configuration, helping users quickly choose the most complete and reliable gate when arriving or departing.

While some stands may include walkers, their appearance ultimately depends on the specific version of the airport you have installed.

Although GSX profiles may look simple to edit, Couatl—the engine behind GSX—can be extremely sensitive. Even when following its formatting rules (correct brackets, spacing, and structure), a single unintended change can cause unexpected behaviour.

*GSX Mapper* has been refined through extensive trial and error to help you avoid these common pitfalls.

That said, for complete peace of mind, always back up your original profiles before making changes.

*GSX Mapper* gives experienced users the diagnostic insight and control needed to build, refine, and *maintain robust GSX profiles* with confidence.

## Who is it designed for?

- Anyone who wants to **visualise a GSX profile** or compare multiple profiles for the same airport.
- Ideal for users who when flying want to select a gate featuring a more intricate pushback procedure or a detailed boarding/deboarding path.
- Users who want to **create or modify walkers, boarding, deboarding, or pushback routes** without relying on the GSX in-sim editor.
- Creators aiming to build a **fully up-to-date profile that GSX Pro will reliably accept**.
- Pilots who simply enjoy **seeing walkers or boarders from their cockpit**.
- It is **not** intended for users who prefer to work exclusively with the GSX editor.
- Nor is it intended for those who expect **guaranteed success** when editing GSX profiles—GSX remains unpredictable, and no tool can eliminate that entirely.

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## Obsolete GSX profiles

### Most GSX profiles available online are likely to be outdated

These may **not** be accepted by GSX Pro.

The usual causes include:

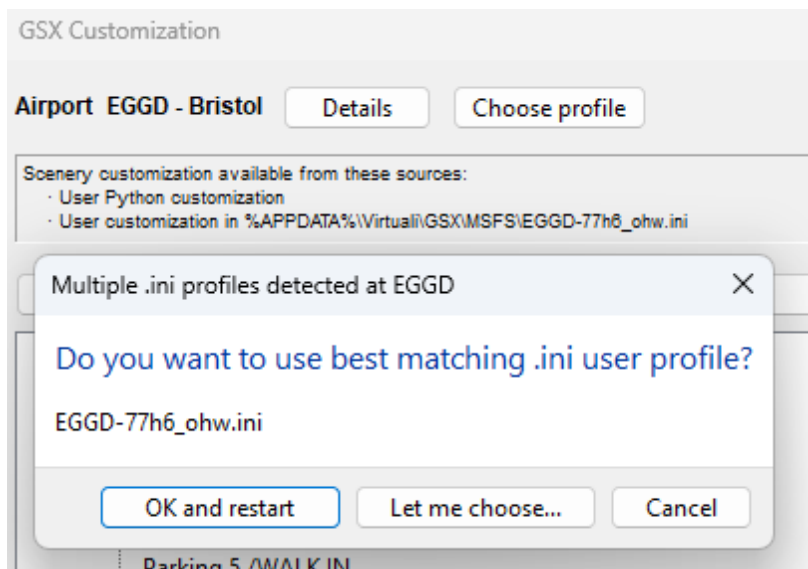
- Gates or parking stands being renamed or removed
- Aircraft parking positions being changed and not complying with the latest navdata.
- New gates or stands being added

### How do you know if a profile is obsolete?

Enter GSX Pro in the sim

Select Customize this Parking Position

The following screen should appear but may get hidden behind the simulation – in which case alt tab it and select. At the Top , you should find the current profile in use by GSX Pro



In our case : EGGD-77h8\_ohw.ini

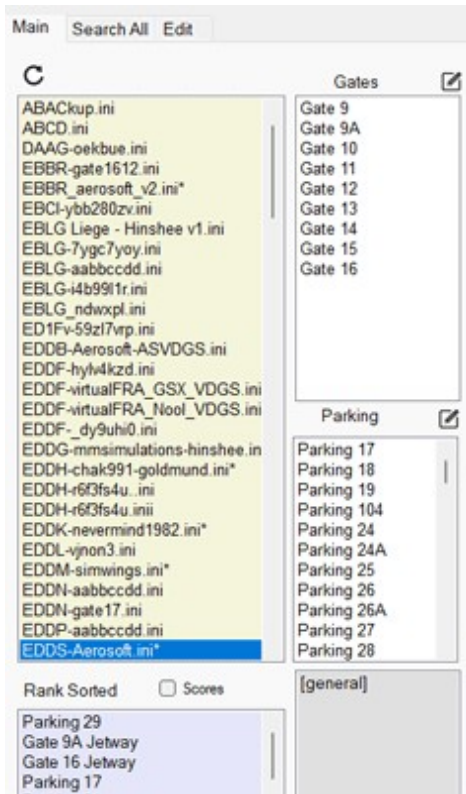
If it does not show any ini file then you need to get GSX Pro to create an ini file – see below.

## Getting Started

All profiles are appear in a cream coloured listbox – if not , check Settings

If GSX Pro has created a new profile – see below – use the refresh button to update the list.

Click on an airport to lists all gates, parking and other spots.



Click on a gate/parking slot to reveal any object and/or route it contains.

To change any items on the map click on Edit

### Quickly Selecting the most detailed gate/parking slot

The lilac coloured list shows gates in order of detail. This can be useful to select a parking slot during the sim.

### How to Edit

Click on Edit icon (pencil) or the Edit tab

### How to edit a specific item?

Click on one of the lists (**disabled in the LI version**)

If the item exists then a **yellow circle** points to its location

You can also click & select an item shown on the map.

- You can click and drag it to a different location

Once dropped the location has automatically been stored – it does NOT automatically save the profile. To do this click the 'Save Profile' Button , or File,Save

- You can change its angle

Objects like Stairs, Baggage, Pushback positions can be turned left or right.

Click Apply Rotation to fix new rotation. The user still has to save the profile

- You can change its height

Boarding and Deboarding Entergates have heights which can be changed

2.5 means 2.5 metres

**However, you cannot not change:**

**parkingsystem\_stopposition**

**this\_parking\_pos**

*These values are hard-coded and have been intentionally disabled in GSX Mapper, because modifying them triggers a persistent error message that can freeze the entire profile and render it unusable - see Solution to Frozen Parking*

## **.PY files**

Some profiles include **.py handler scripts** that dynamically override parts of a GSX profile based on conditions such as gate, weather, time of day, aircraft type, airline, or local noise-abatement rules.

For example, **rain at an airport may force GSX to use buses instead of your custom boarding/deboarding routes**, because the handler script instructs GSX to ignore those routes under wet-weather conditions.

GSX Mapper adds a \* to the file name for easy identification.

# How to draw routes

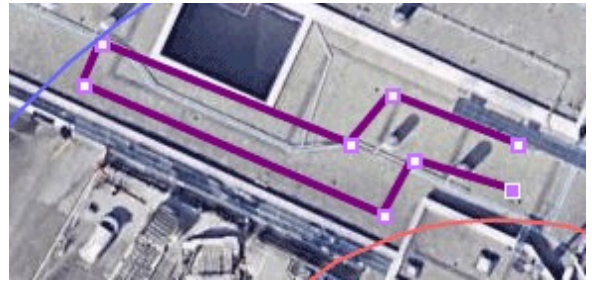
## Walkers

Click Purple walkers button and create your path by clicking on the map.

To finish, click apply route.

**Purple coloured in node denotes start of walk.**

Walkers start 15+ secs after restarting Couatl – if they don't see below.



Walkers can get trapped in buildings which have no transparent windows.

You do not need to plot a line taking you back to your starting position – GSX does this automatically

**Do not use more than 10 nodes.**

You can drag each note to a different place.

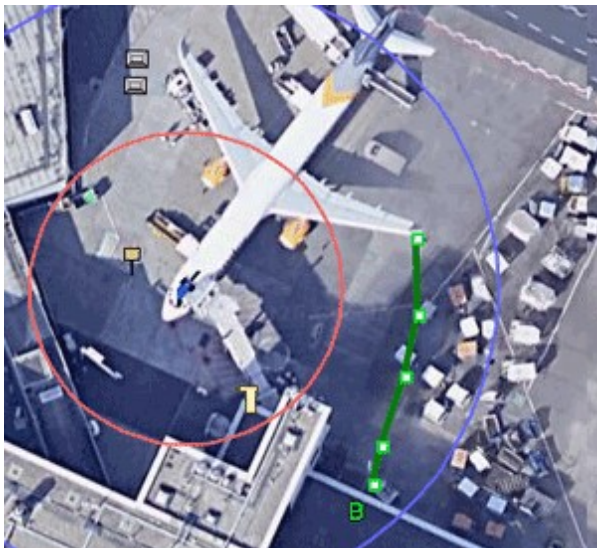
You can apply the same height to all nodes by clicking ‘Apply to All’

## Boarding and Deboarding

Both need a gate to aim for – they don't need to touch your last node.

Start with a node *level with cockpit with a wing's distance from the cockpit.*

Finish near the B or D node.



**Front pax walk to the wing then turn**



**Rear pax walk to the front then turn**

Both situations are not ideal.

**Always Start from the plane and finish near the gate**

**You 'll soon discover what happens if you don't.**

Check to see if the height of your boarding gate etc is the same as the last node you have plotted.  
If the route does NOT follow a jetway, but instead runs along the apron , make sure you have the unticked **Jetway option**.

**Check if the bus option has been ticked. If so it ignores your boarding or deboarding route!**

### **What if walkers do not appear?**

Walkers generally take 15 secs to ‘warm up’ after an edit of any kind to the route.

If walkers boarders & deboarders do not appear then check:

- Is GSX Pro using the same profile as you are? See below on how to check this.
- After you’ve edited the route ,have you restarted Couatl (see below) ?
- The route may be hidden within a building
- There may be too many waypoints.
- You’ve made the route too long before they appear.  
Generally, it’s pointless to plot a route through a building without transparent windows.

Solution 1: If in doubt, draw your route covering ground level on the apron and restart Couatl if you are in the simulation.

Solution 2: Add a parking system

- select a VDGS, ie *SafeDockTS24Ground*, **NOT** a marshal
- place it 10m in front of the cockpit
- Restart Couatl

After 5 secs the VDGS should be visible , if not , GSX Pro is using a different profile!

*Note: Marshals do not appear when restarting Couatl.*

## Pushback

GSX Mapper supports Left (green) and Right (red) pushbacks.

Currently, we do not support blue pushbacks.

The **first node** in a pushback route is always the **final stop position** of the aircraft. The **second node** must always lie **between the aircraft and the first node**.

A higher **Approach Number** means the node is **closer to the final position**, which is why a pushback cannot simply be drawn as a continuous route. Each node represents a specific orientation and transition point.

**Green arrows** indicate a **Left** pushback. **Red arrows** indicate a **Right** pushback.

Each arrow shows the **direction the aircraft is facing** at that node. If the arrow is not the final one, it marks the **start of a new path segment**, not the end of the previous one.

In most cases, the **left and right final nodes face each other**. If nodes are incorrectly placed, **GSX Mapper will display crossing routes**, making the issue obvious.

When placing nodes—especially the final one—use the **satellite imagery** to click on a precise, painted taxiway reference point. This makes the pushback look more accurate and professional.

To speed up route creation, use the **Next** button. It automatically selects the correct tag for the next node. One button is dedicated to **Left** pushback routes, the other to **Right**.

Be aware that **GSX Pro occasionally ignores custom routes** and generates its own pushback path!

## Rotating Angles

Items which do not have a height property, can be rotated.

Click on an item and use the << or >> button to change angle; untick 10 option to change by 1 degree only

In the sim Stairs etc, if the angle is 'wrong', show a rapid 180 degree spin when the user selects Boarding or Deboarding.

## Adding Height

You can change heights for Passenger Gates, both boarding and Deboarding.

Click on a B or D tag and change heights.

Heights of routes can be changed by selecting the correct option, ie Walking, and either click on a node or click on the graph.

Select *Apply to All* if you want the height to apply to all points – restart Couatl if in the sim.



## ***How to delete a waypoint or item?***

*Click on a node or item and either click Trash Bucket or press **Delete** key*

## ***Adding Parking Systems (VDGS)***

Select Parkingsystem\_objectposition and click on the map to fix the location

By default it's set to Marshall (this is referred to as 1 in old profiles)

Change angle so that the pilot can see it head on. The picture on right shows an *incorrect* angle as seen from the cockpit.

Generally, GSX Pro is not too fussy as to where you put it.



## ***How to restart Couatl***

*In the sim click on your GSX button and select the Restart Couatl button.*



If it gives a grunt you need to abort your current 'operation' ie click on Boarding , then click Abort.  
Wait until it has aborted then click Restart Couatl

### ***How to speed up Couatl***

*At times GSX Pro gets slowed down by Windows Virus checker*

*You may wish to add the following folders to the exclusion list*

- C:\Program Files (x86)\Addon Manager
- C:\ProgramData\Virtuali

## **Solution to Frozen Parking**

Once GSX has encountered an 'error' you cannot be change gate without having to end your flight. Even then, GSX will just refuse to refresh the profile.

### **Solution:**

Remove any reference to your profile in **Couatladdons.ini**

**Go Tools,Couatladdons.ini** to launch this file

*This will force Couatl to refresh itself and clear its memory.*

## ***Copying and Pasting***

Routes even if it is the same route must be added to each parking area

They can be copied from one parking slot to another, particularly useful when copying walkerwaypoints.

Go Tools, Copy Route,Walkers.

Next enter a different parking slot and select Paste from the same tools menu.

## Get GSX Pro to create a new ini profile

Go GSX ,Customize Parking etc ;

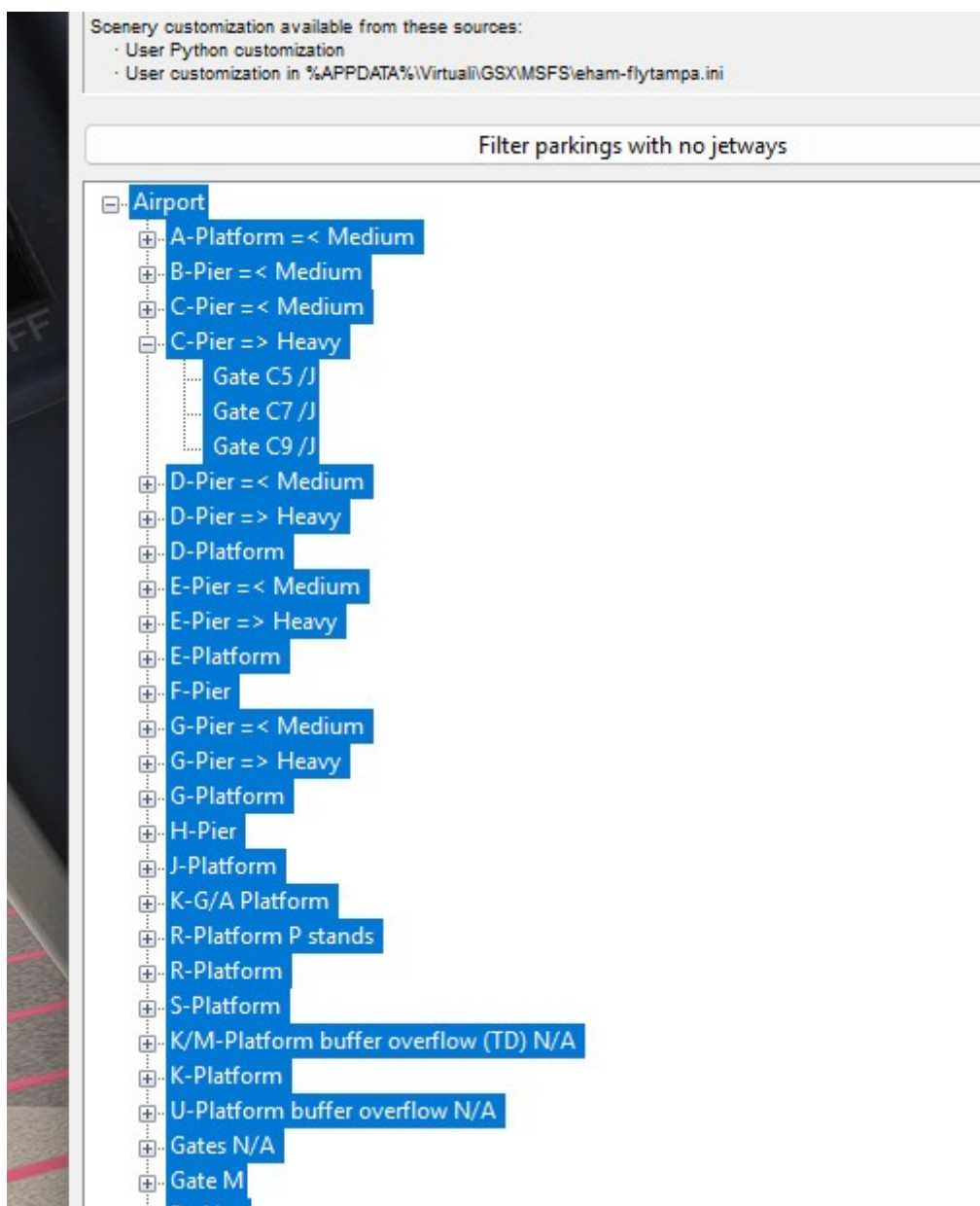
1) Select all parkings

2) Because the Apply button (bottom right) has been disabled you need to tick and untick one of the options , then click Apply

3) You may have to exit this window for GSX Pro to save the new profile

In GSX Mapper click the refresh button above the list of profiles so the new profile appears.  
It will start with the same icao code for your airport

If it doesn't then reenter the GSX's grey options window and check file reference on top.



With **GSX Mapper**, you can generate a fresh GSX Pro profile that automatically includes **all current gate and parking names**—a critical foundation for any working profile.

However, this will never be accepted, it seems, by GSX Pro as data is not current.

Evenso, it will force GSX pro to give you an option to create a new profile.

To ensure it contains all parking areas select all parkings as described above.

## Working with newly created profiles

These profiles are up to date viz gate labels but do not contain any coordinates.

You can get *GSX Pro* to create coordinates for it's current parking position by:

clicking customize parking system

### Important short cuts:

**F4** for next item , < **and** > **keys** for changing position

**Enter** for forcing a save and exit editor.

The following procedure has been found to do the trick:

- 1) Use the < and > key to move it left and then back right – this only has to be done once
- 2) Press F4 to get the next item
- 3) Use < and > key as above
- 4) Press ENTER to exit

This should give the current parking slot 2 coordinates.

Click on your current profile in the light creamy list to force it to reload the current profile

Find your gate and it should now contain 2 objects which enables you to focus on your parking slot once in the editor

- Place a 'pushback\_pos =' marker where the plane should be parked.
- You can also place both front and rear stairs on the left side of the aircraft. They will only spawn when *Boarding* is selected, so it's another quick visual check that your profile is being read correctly.
- You can add a walking route on the apron—ideally in front of the aircraft. This makes it easy to confirm whether GSX is actually using your custom profile, because the walkers will appear after 15 secs if it's active.
- Save profile
- Restart Couatl – Wait 10+ secs and if all goes well the walkers will appear.