Alabeo C400 Corvalis TT

GTN 750 Implementation

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This is a Flight1 GTN750 implementation for the Alabeo C400 Corvalis TT. It replaces the original virtual cockpit MFD with the GTN 750 touchscreen, while retaining the Engine Information System sidebar. The EIS sidebar has been recoded so as to remove gauge element interference with adjoining GTN display, and resizing and positioning so that the GTN screen display fits tight without any gaps between the bezels and the gauges for seamless integrated look.

It features:

- Flight1 GTN750 MFD integration in the Virtual Cockpit, with functional on-screen GTN menus.
- GTN 750 popup, using the triangular button on the left bezel MFD, the **PF Keys 1 and 2** button on bottom MFD bezel or SHIFT + 3.
- G1000 MFD 2D gauge popup, with the popup shortcut moved to the lower MFD bezel (**PF Keys 3 to 12**) of the MFD or SHIFT + 2. This move was necessary to allow access to the radio buttons hidden under the upper bezel.
- Set up XPDR, COM and NAV radios is possible in the virtual cockpit GTN750 by pressing hidden buttons under the top bezel.
- Functional G1000 MFD NAV Radio and Volume knobs are retained, as are all left bezel buttons (frequency swap, autopilot buttons and GTN750 popup).
- Three alternatives for the panel.cfg are provided:
  - **NoStatusBar_Panel.cfg** - displays the map screen minus the bottom status bar. The top radio bar is hidden, but accessible by clicking the top bezel.
  - **StatusBar_Panel.cfg** - displays the map screen and bottom status bar. The top radio bar is hidden, but accessible.
  - **RadioBar_Panel.cfg -** displays the lower buttons of the radio bar as well as the full map. The bottom status line is not visible.

What you give up in the virtual cockpit:

- The G1000 MFD loses its native functionality (except the engine systems information), so you must rely on the G1000 MFD 2D popup, which is unaffected. The lower PF Key buttons original assignments are disabled for the VC G1000 MFD.
- The GTN750 HOME button, as well as the radio and volume knobs and buttons, are not accessible on the virtual cockpit.
- For the virtual cockpit GTN 750 you have access to all main screen buttons, and while not visible, you can access the bottom row of the Radios Top Bar on the screen (COM, XPDR and NAV buttons), plus Intercom and COM monitor can be pressed to enable their respective screen popups.

These panels have been tested with Windows 10 64bit, Prepar3D v.3.4 and FSX Acceleration.

If you have any questions, PM me at jfrexach@yahoo.com.

Jorge Rexach

HOW TO INSTALL

You should have the following files:

- • ....\P3D-FSX\simobjects\Airplanes\Alabeo C400_Corvalis_TT\Panel\

  - RadioBar_Panel.cfg
  - StatusBar_Panel.cfg
  - NoStatusBar_Panel.cfg
  - OriginalPanel.bat
  - RadioBarPanel.bat
  - StatusBarPanel.bat
  - NoStatusBarPanel.bat

- • ....\P3D-FSX\simobjects\Airplanes\Alabeo C400_Corvalis_TT\Panel\C400_G1000\

  - G1000_GTNMFDC400vc.xml
  - GTN750_Background.bmp
  - GTN750_MFD_STARTUP.bmp

- • ....\P3D-FSX\simobjects\Airplanes\Alabeo C400_Corvalis_TT\Panel\C400\

  - iconpanel_background.bmp
  - ToggleCAR14401.xml
  - ToggleCOM_SWAP.xml
  - ToggleDirectTo.xml
  - ToggleMENU.xml
  - ToggleFPL.xml
  - TogglePROC.xml
  - ToggleCLEAR.xml
  - ToggleENTER.xml

- • This readme file.

Radio Bar Option

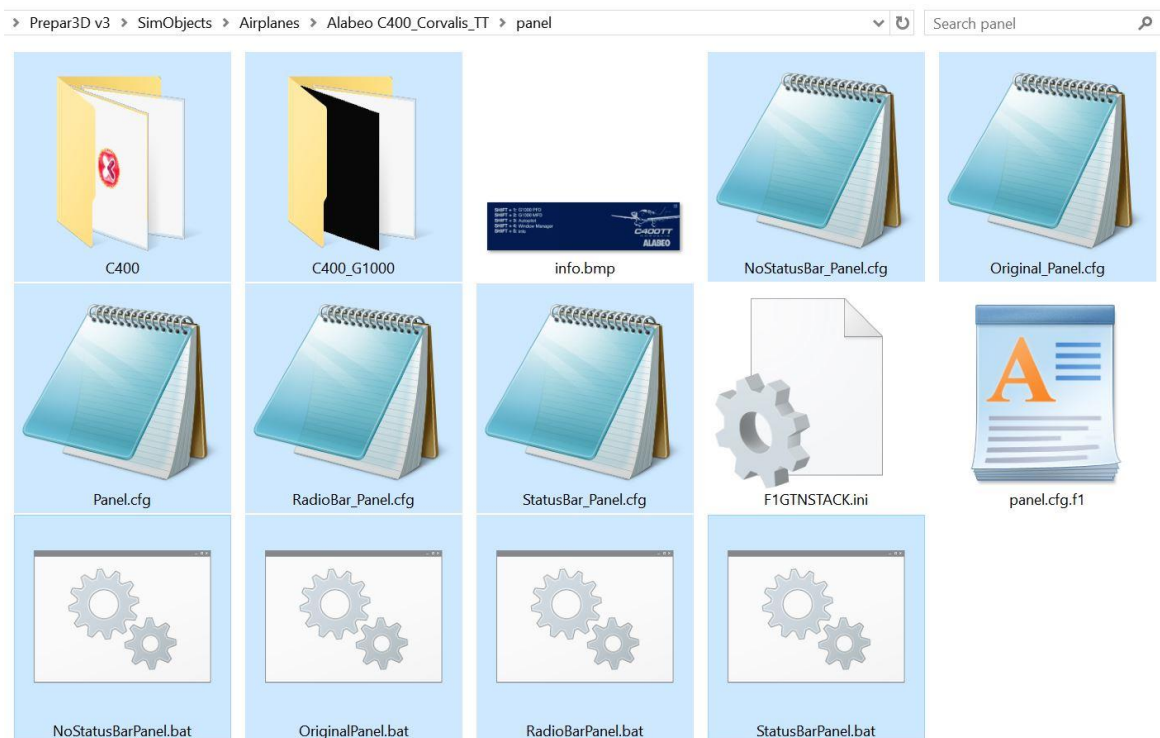## Status Bar Option

No Status Bar Option

A.   INSTALL PROCESS:

This is a straight forward, easy installation for the GTN 750. Note that the "\Alabeo C400_Corvalis_TT\" is the C400 folder in my installation. You must substitute with your aircraft root folder, however the **Panel** subfolders **C400_G1000** and **C400** should not be renamed.

1. Make a backup copy of your panel.cfg in the ...**\Alabeo C400_Corvalis_TT\ Panel** folder, by copying and pasting it in the **Panel** folder. Rename the resulting "*panel - Copy.cfg*" as "**Original_Panel.cfg**". This backs up your current configuration, and allows the use of the provided bat file to automate the restoring of your original configuration.   Note: "*\Alabeo C400_Corvalis_TT*" is the name of my C400 aircraft root folder, yours might be different.

2. Copy your current installation's ... \SimObjects\Airplanes\Alabeo C400_Corvalis_TT**panel** folder into the C400 aircraft root folder and call it **panel.bkup**. There are never enough backups!

3. Move the included **GTN750 Alabeo C400_Corvalis_TT.zip** file into your C400 aircraft **root folder** and double-click to extract. When asked to overwrite any existing files, say YES. This action will copy into your C400 root folder all the required files and folders without affecting your existing files and panel folder structure.

4. You should have 5 *.cfg files in your main panel folder *'RadioBar_Panel.cfg ', 'StatusBar_Panel.cfg ', 'NoStatusBar_Panel.cfg ',*as well as your *'Original_Panel.cfg' and* **panel.cfg**.

5. Batch files have been provided to create the desired panel.cfg. These overwrite the panel.cfg residing in this folder without any confirmation prompts. If you have altered the current panel.cfg file, make sure you have backup copies (reread Step 1) before overwriting with these batch files, and have updated these changes *to the remaining panel configuration files*, or your work might be lost when you use any of the .bat files.

6. Execute the appropriate batch file to create the panel.cfg file of your choice. These are:

    -   RadioBarPanel.bat   :   copies the RadioBar_panel.cfg to panel.cfg
    -   StatusBarPanel.bat   :   copies the Status Bar_panel.cfg to panel.cfg
    -   NoStatusBarPanel.bat   :   copies the NoStatusBar_panel.cfg to panel.cfg
    -   OriginalPanel.bat   :   restores your Original_Panel.cfg file to panel.cfg.

7. Verify that all folders and files within the **'\Alabeo C400_Corvalis_TT\Panel'** folder have been created into the new folders '**C400_G1000**' folder and '**C400**' folder.

8. You must have also configured the GTN 750 into your aircraft so that the F1GTN.ini (in the aircraft's root folder) and the F1GTNSTACK.ini (in the panel folder) are present. If not, run the F1TGTNConfigP3D or F1TGTNConfigFSX first. You might also copy these files from a previous aircraft GTN 750 installation.

Example of C400 Root Folder

> Prepar3D v3 > SimObjects > Airplanes > Alabeo C400_Corvalis_TT

Name	Type
Manuals	File folder
model	File folder
panel	File folder
sound	File folder
Texture	File folder
Texture.1	File folder
Texture.2	File folder
Texture.3	File folder
Texture.4	File folder
Texture.5	File folder
Texture.6	File folder
Texture.Common	File folder
C400TT.air	AIR File
aircraft.cfg.bak	BAK File
aircraft.cfg	CFG File
F1GTN.ini	Configuration settings

Example of C400 Panel folder

> Prepar3D v3 > SimObjects > Airplanes > Alabeo C400_Corvalis_TT > panel

Name	Date modified	Type
C400	2/15/2017 8:36 PM	File folder
C400_G1000	2/15/2017 5:43 PM	File folder
info.bmp	9/8/2015 11:17 AM	BMP File
NoStatusBar_Panel.cfg	2/15/2017 7:26 PM	CFG File
Original_Panel.cfg	2/15/2017 7:17 PM	CFG File
Panel.cfg	2/15/2017 7:26 PM	CFG File
RadioBar_Panel.cfg	2/15/2017 7:26 PM	CFG File
StatusBar_Panel.cfg	2/15/2017 7:20 PM	CFG File
F1GTNSTACK.ini	2/7/2017 9:15 PM	Configuration settings
panel.cfg.f1	9/11/2015 5:41 PM	F1 File
NoStatusBarPanel.bat	2/15/2017 7:15 PM	Windows Batch File
OriginalPanel.bat	2/15/2017 7:21 PM	Windows Batch File
RadioBarPanel.bat	2/15/2017 11:24 AM	Windows Batch File
StatusBarPanel.bat	2/15/2017 11:23 AM	Windows Batch File

9. That's it. Go fly. If you don't see any changes, recheck the panel.cfg file.

To switch between the alternative GTN displays, use the batch files provided.   Remember, if you modify your current **panel.cfg** file, you must update the other GTN config files (***RadioBar_Panel.cfg, StatusBar_Panel.cfg, NoStatusBar_Panel.cfg,*** and ***Original_Panel.cfg***) to ensure that your changes are not lost if you overwrite the Panel.cfg in the future.

To revert to the original Garmin 1000 MFD panel configuration file, use the ***OriginalPanel.bat*** to copy the ***'Original_Panel.cfg'*** back to ***'panel.cfg'***.   Alternatively, you can manually copy the backup copy from the 'panel.bkup' folder to the 'panel' folder, overwriting the current panel.cfg. The **\Panel** sub folders '**\C400_G1000**' and '**\C400**' subfolders will not interfere with your original installation.

B.   MULTIPANEL INSTALL PROCESS:

This involves creating a different panel folder for each panel version. Before you start, follow steps 1 and 2 in the previous section to back up your existing files and configuration.

1. Make a copy of the AIRCRAFT.CFG in your aircraft root folder (e.g. ...\simobjects\Airplanes\Alabeo C400_Corvalis_TT\aircraft - Copy.cfg).

2. From your aircraft root folder, make a copy of the current panel folder for as many variations as you might need. e.g. :

   > ...\Alabeo C400_Corvalis_TT\panel\
   > ...\Alabeo C400_Corvalis_TT\panel.GTN\
   > ...\Alabeo C400_Corvalis_TT\panel.GTN2\

3. Verify that you have the F1GTN.ini file in the Alabeo C400_Corvalis_TT\ root folder. This file was created when you install the Flight1 GTN 570 software to the Corvalis C400. If you have not installed the GTN to this airplane, make a copy from another of your aircraft, or run the F1 GTN configuration utility.

4. Open the aircraft.cfg file using notepad, and at the beginning of the file is the section of the different liveries of your aircraft. Copy the [fltsim.XX] section for your favored livery and paste it below last one. Then change number X in [fltsim.X] and use next in sequence. Then change the title to identify GTN version and add gtn to panel line. If you don't need the original G1000 panel you can just modify panel line to 'panel=GTN'.

Example of the aircraft.cfg file:

```
//***************************************************
// ALABEO C400 CORVALIS TT FSX/P3D
// Copyright © Alabeo 2015 - All Rights Reserved
//***************************************************

[fltsim.x]
title=Alabeo C400 Corvalis TT WHITE    ---> change title to identify modification
sim=C400TT
model=
panel=GTN                  ---> add folder suffix (for panel.GTN folder add GTN after '=' sign (no spaces)
sound=
texture=
 . . . . . .
visual damage=1
```

5. Verify that you have the F1GTNSTACK.ini file in the Alabeo C400_Corvalis_TT\panel\ folder, or copy it from another aircraft with GTN 750 installed.

6. Unzip the attached panel.zip files into a temporary folder, open the panel subfolder, highlight all folders and files, right-click and copy all to the newly created **panel.GTN** in your installed C400 folder. You should have the following new folders and files (plus those files from your copied panel folder):

- ....\P3D-FSX\simobjects\Airplanes\Alabeo C400_Corvalis_TT\Panel.GTN\

  - RadioBar_Panel.cfg
  - StatusBar_Panel.cfg
  - NoStatusBar_Panel.cfg
  - Original_Panel.cfg
  - RadioBarPanel.bat
  - StatusBarPanel.bat
  - NoStatusBarPanel.bat
  - OriginalPanel.bat

- ....\P3D-FSX\simobjects\Airplanes\Alabeo C400_Corvalis_TT\Panel.GTN\C400_G1000\

  - G1000_GTNMFDC400vc.xml
  - GTN750_Background.bmp
  - GTN750_MFD_STARTUP.bmp

- ....\P3D-FSX\simobjects\Airplanes\Alabeo C400_Corvalis_TT\Panel.GTN\C400\

  - iconpanel_background.bmp
  - ToggleCAR14401.xml
  - ToggleCOM_SWAP.xml
  - ToggleDirectTo.xml
  - ToggleMENU.xml
  - ToggleFPL.xml
  - TogglePROC.xml
  - ToggleCLEAR.xml
  - ToggleENTER.xml

7. Open your flight simulator and select the aircraft with the GTN panel (remember the title change in the [fltsim.x] section of the aircraft.cfg file. If you don't see your GTN aircraft livery:

   - check the aircraft.cfg file. Your "panel=XXX" must have a corresponding "panel.XXX" folder

   - check panel folder structure and naming for correctness.

   - check panel.cfg file version, you might not have overwritten the original config file.

   - check folders to ensure they contain the required files.

8. To restore to the original files:

   a) Check that you have the backup panel folder and files within

       ...\simobjects\Airplanes\Alabeo C400_Corvalis_TT\panel.bkup"

   b) Check that a backup copy of the aircraft.cfg exists in

       ...\simobjects\Airplanes\Alabeo C400_Corvalis_TT\aircraft - Copy.cfg

c) If you confirmed a) and b):

1) Delete or rename the aircraft.cfg file and then rename the aircraft - Copy.cfg to aircraft.cfg.
2) Delete the panel folder and all its files.
3) Rename the "panel.bkup" folder to "panel".

9. If you experienced problems with this last installation process, I would recommend you follow the steps in the Section A, which do not require creating different folder structures for panels, nor modifications to the aircraft configuration file. In this case, to revert to the original panel all you need to replace is the original panel.cfg file using the OriginalPanel.bat batch file.

C. CLICKABLE MOUSE AREAS:

All knobs on the G1000 MFD bezel remain enabled, as well as the buttons on the left bezel. On the right side, the COM Swap is enabled, and the DirectTo is configured to open the DTO popup window in the GTN 750.

MOUSE AREAS

All knobs (left and right bezels) fully functional. Left bezel buttons are also functional.
Right side buttons as indicated.

The G1000 MFD toggle has been moved to the bottom bezel, clearing the top bezel for access to the hidden radio rows.