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In cooperation with



***MAIW El Salvadoran Air Force (Fuerza Aerea Salvadorena)  
A-37s – Spring 2007***



**Version: 1.0**

**For FS 2004 / FS9**

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The A-37 is the primary attack aircraft of many Latin American air forces. This freeware AI package, produced by [Military AI Works](#) in cooperation with [World of AI](#), contains everything needed to fully activate the venerable Dragonflies of the Fuerza Aerea Salvadorena using Pascal Suls' brand-new A-37 model designed especially for AI. Includes models, realistic aircraft textures, unique callsign voicepack, AFCAD, and flightplans.

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### **1. About MAIW**

Military AI Works (MAIW) is a loosely affiliated, international group of flightsim enthusiasts who share the common goal of seeing realistic military AI traffic in MS Flightsim.

- 1) Produce only high-quality, freeware packages and products
- 2) Create military AI traffic as accurately as possible within the bounds of MS Flightsim
- 3) Promote new freeware military AI models and products
- 4) Advance military AI modeling of countries around the globe
- 5) Respect the rights of designers and contributors

To learn more about MAIW or to become a contributor, visit our website at <http://militaryaiworks.com>.

## 2. Credits

Models:

- A-37 by Pascal Suls, FDE by Mike MacIntyre

Repaints:

- A-37s by Dan Bourque

AFCADs, Flightplans and Voicepacks:

- Dan Bourque

Easy-to-install packaging by [World of AI](#)



## 3. Units Included in this Package

**Comalapa, San Salvador, El Salvador (MSLP)**



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**Escuadrón Caza y Bombardero**

Aircraft: A-37 (O-2s not included)

Callsign: "Dragon" (listed in EditVoicepack as "Dragon")



## 4. Installation

**Step 1) Remove duplicate AFCAD files**

1) Open your "Flight Simulator 9/Addon Scenery/scenery" folder and remove any previously installed AFCADs for the following airports (e.g. "AF2\_KXXX.bgl," "AF2\_KXXX\_DEFAULT\_XX.bgl" or "PAI\_AF2\_KXXX\_DEFAULT.bgl"):

MSLP

NOTE: Failure to remove these files may result in problems with AI aircraft parking and operation. It is recommended you move these to a temporary folder instead of deleting them, however, you should not need them again as the AFCADs included in this package are thoroughly researched and highly detailed. If you are using addon scenery for one of the above airfields, it is recommended you do NOT remove the AFCAD for the addon scenery, but instead remove the MAIW AFCAD file (e.g. MAIW\_KXXX\_DEFAULT\_XX.bgl) after installation if necessary.

## Step 2) Install this package

2a) Read the installer page regarding installation of this file: <http://www.world-of-ai.com/installer.html>

2b) Install the package in accordance with the World of AI Installer instructions

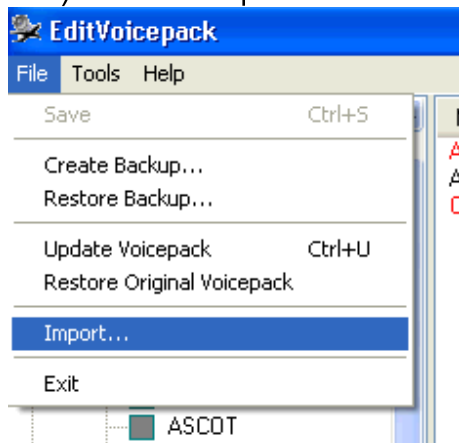
NOTE: If an uninstall is desired at a later date, only the aircraft and flightplans will be removed. All scenery files, including AFCADs, will need to be removed manually.

## Step 3) Install callsign voicepacks

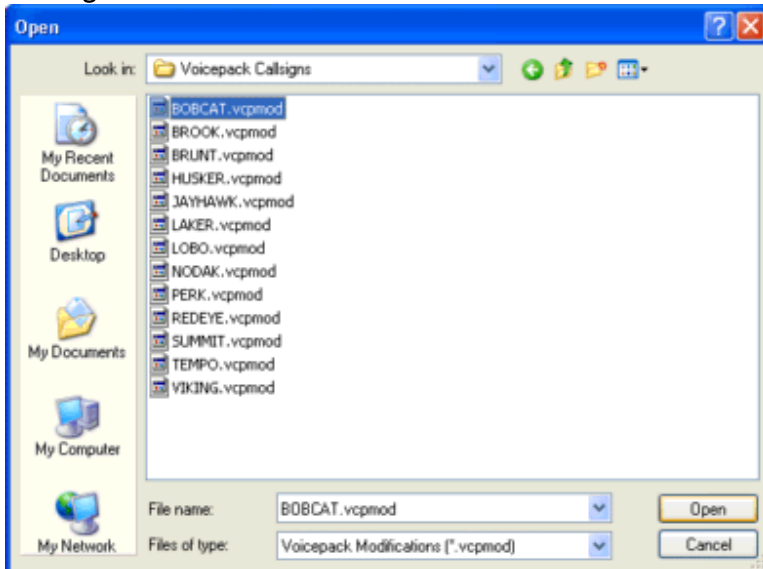
3a) If you don't have the EditVoicepack 3.1 freeware installed, download it and install it by [clicking here](#).

3b) Run EditVoicepack and import all .vcpmo files included in the El Salvador A-37 package

3b1) Choose "Import" from the "File" menu

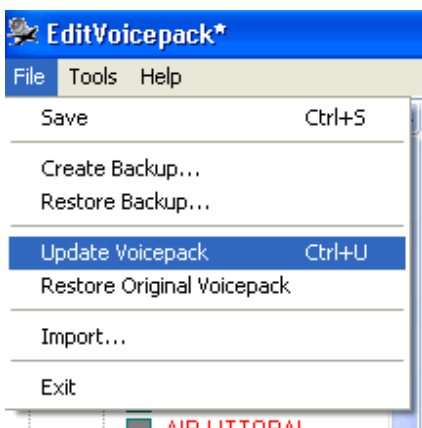


3b2) Find the folder “Flight Simulator 9/Military AI Works/EI Salvador/A-37s/Voicepack Callsigns” in the “Look in:” window



4b3) Click “open” for each file

4c) Update the Voicepack for FS9 by choosing “Update Voicepack” from the “File” menu--ensure the “Custom/Callsigns” box is checked in the left hand window. (note: the update may take a few minutes—do not attempt to start FS9 until the update is complete. Look for “Ready” in the lower left corner)



***That's it! You've successfully installed this package. Your AI traffic files will be automatically updated the next time you run FS9. Here's a hint to see some of these aircraft in action: there's a touch-and-go flight scheduled to depart at 18:12:00 GMT every day.***



## 5. Troubleshooting

### **Problems addressed:**

"I've installed the package, but there are no AI aircraft at the airports"

"I've been watching the AI aircraft for simulated hours, and I haven't seen them move"

"When I go to an airport, there are AI planes parked on top of one another"

"When I go to an airport, the military planes are parked at the gates"

"When I go to an airport, there are general aviation aircraft on the military ramps"

"I can't find the aircraft in the aircraft selection menu"

"When the AI planes talk to ATC, they use only numbers, not callsigns"

"I'm following the AI aircraft, and they won't come back for touch-and-gos"

**Problem: "I've installed the package, but there are no military AI aircraft at the airports"**

Potential issue: FS9 AI traffic density set too low

Fix action: In FS9, set the AI traffic density slider to at least 60%.

**Problem: "I've been watching the AI aircraft for simulated hours, and I haven't seen them move"**

Potential issue: Watching at the wrong times

Fix action: If you simply MUST see these aircraft flying, there is a touch-and-go flight scheduled from each home airport at exactly 18:12:00 GMT daily.

**Problem: "When I go to an airport, there are AI planes parked on top of one another"**

Potential issue: Multiple AFCADs active for the same airport

Fix action: Using Windows Explorer, open the folder "Flight Simulator 9/Addon scenery/scenery." Look for duplicate entries for the following airport identifiers:

MSLP

Files may be named in several ways. The most common are "AF2\_KXXX.bgl," "AF2\_KXXX\_DEFAULT\_XX.bgl" and "PAI\_AF2\_DEFAULT.bgl." Keep the files named "MAIW\_AF2\_KXXX\_DEFAULT\_XX.bgl" and remove all others with duplicate airport identifiers.

**Problem: “When I go to an airport, the military planes are parked at the gates”**

Potential issue: Old AFCAD still active for the airport

Fix action: Using Windows Explorer, open the folder “Flight Simulator 9/Addon scenery/scenery.” Look for duplicate entries for the following airport identifiers:

MSLP

Files may be named in several ways. The most common are “AF2\_KXXX.bgl,” “AF2\_KXXX\_DEFAULT\_XX.bgl” and “PAI\_AF2\_DEFAULT.bgl.” Keep the files named “MAIW\_AF2\_KXXX\_DEFAULT\_XX.bgl” and remove all others with duplicate airport identifiers.

**Problem: “When I go to an airport, there are general aviation aircraft on the military ramps”**

Potential issue: No parking type assigned to GA aircraft

Fix action: Add a “RAMP” parking type to all of your GA aircraft.cfg entries. Copy the following line into each [fltsim.x] entry for all GA aircraft used as AI.

```
atc_parking_types=RAMP
```

This entry can be anywhere, but needs to be placed in each individual [fltsim.x] section for each GA aircraft. If you are using the default GA aircraft, this includes the following aircraft folders within the “Flight Simulator 9/Aircraft” folder:

```
beech_baron_58  
beech_king_air_350  
c172  
c182  
c208B (c208 should be “DOCK”)  
lear45  
pa28_180  
Piper_J3Cub
```

**Problem: “I can’t find the aircraft in the aircraft selection menu”**

Issue: These are AI aircraft and have been programmed to not show up in the flyable aircraft selection menu

Fix action: If you simply must select these aircraft, use an editing program such as AirEd and change the Aircraft type from “2” to “0”

**Problem: “When the AI planes talk to ATC, they use only numbers, not callsigns”**

Potential issue: Callsign Voicepacks were not installed correctly

Fix action: Run the EditVoicepack software. Look for the following callsigns in the “custom modifications/callsigns” section of the program:

DRAGON’

If any of these are missing, choose “File/import” and open the appropriate .vcpmo file in the folder “Flight Simulator 9/Military AI Works/El Salvador/A-37s/Voicepack Callsigns.”

Once this is complete, or if all callsigns are present, ensure the “Custom/Callsigns” box is checked in the left hand window and choose “File/Update Voicepack” to install them into FS9 (this may take a few minutes, do not open FS9 until the lower left of the EditVoicepack screen says “Ready.”)

**Problem: “I’m following the AI aircraft, and they won’t come back for touch-and-gos”**

Potential issue: You’re following your AI aircraft

Fix action: Stop following your AI aircraft. For some reason, a watched AI aircraft does not always behave the way it is programmed to. If you wait for the aircraft at the airport, it will arrive on schedule

**Problem: “Do I need to install these flightplan.txt files”**

NO, if you followed the instructions, you did everything you needed to do by moving the traffic\_x.bgl files into the Scenery folder. The flightplan\_x.txt and aircraft\_x.txt files are included for advanced users who wish to modify the flightplans or aircraft assignments and recompile the traffic files using Lee Swordy’s [TrafficTools](#).



## 6. Notes and Resources

Ideas and Support:

Much of this package was built with the help, ideas and resources of the [Military AI Works](#) online community. If you are interested in making Flight Simulator Military AI traffic more realistic, visit this site.

Flightplans:

The flightplans are fictional, but yield realistic appearing operations. Most actual ANG training sorties are out-and-backs, but these are not supported realistically in FS9. The included flightplans include touch-and-gos at the home base and nearby airports



as well as cross-country flights on the weekends. Because these are Guard units, most of the flights occur on weekends when pilots take a break from their civilian jobs to fly for the Guard.

Fighter aircraft typically fly in 2-ship or 4-ship formations. While much research and experimentation has been done to allow AI aircraft to fly in formation. I decided it would be impractical for the general user to include these techniques because of their potential instability and impact to non-military AI traffic. Instead, fighters in this package are assigned to a 2-ship or 4-ship which will depart and arrive at the same time. These aircraft will taxi together, but will still fly as single ships and take off and land in sequence, not in formation.

All flightplans were created using the [yRoute](#) freeware AI traffic editor and tweaked using a text editor to remove spaces and unwanted characters. Flightplans were installed using Lee Swordy's [TrafficTools](#) freeware traffic compiler.

#### Callsigns:

The callsigns used in this package are actual callsigns used by these units based on information found online [here](#). While squadrons generally use several different callsigns for training missions, I have included only one for each squadron for simplicity's sake.

All callsigns were created using the ingenious [EditVoicepack](#) freeware. This program is extremely simple and fun to use—if you need a new AI callsign, give it a try!

#### AFCADs:

I take great pride in the quality and accuracy of my AFCADs. I will typically spend between 8-16 hours researching and developing each AFCAD. Many of these AFCADs have crossing runways enabled through use of the “star runway” techniques developed and refined by many others. This will allow AI aircraft to use all runways at an airfield. All AFCADs were created using free online resources including aerial imagery from [Google Earth](#), [Google Maps](#), [Terraserver](#) and FAA charts from [airnav.com](#) for each airport. In addition to charts and runway information, the [airnav.com](#) pages include links to each airport's home page which were also useful for matching airlines to gates, identifying general aviation areas, etc. For the larger airports, photos from [airliners.net](#) were helpful in placing parking, taxiways and aprons.

I am reasonably confident that most airline and tenant ANG aircraft parking slots are correct, but most transient parking is a best guess based on available space. Additionally, only tenant aircraft parking is assigned parking codes—all transient parking is left unassigned (not even an “M003”). I have found this yields the most realistic parking and is the most compatible with different parking assignment schemes. Personally, I use a squadron-specific scheme and assign the squadron number and designator to each aircraft's parking code (ex. “atc\_parking\_codes=197A”). This ensures they park in the correct spots at their home airport and park in the unassigned transient parking spots at other airports.

The included AFCADs, however, are set up to support squadron specific (ex. "188F"), aircraft specific (ex. "F16") and type specific (ex. "M001") parking assignments.

All AFCADs were created using Lee Swordy's [AFCAD v2.21](#). This has got to be one of the finest freeware programs ever created. Want to add some AI parking to your local airport? AFCAD makes it fun!



## 7. Permissions and Disclaimers

### Adverse Effects:

The contents of this package should not adversely affect your FS9 or computer operation if installed according to the instructions. The authors make no guarantee and bear no responsibility for adverse operation or lost/overwritten files on your computer.

### Use of Contents:

THESE FILES MAY ONLY BE UPLOADED TO AVSIM or FLIGHTSIM.COM BY THE AUTHOR.

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Upload to FSPLANET.com will never be allowed by Military AI Works or World of AI.

### Sources:

All information used to create this package was obtained via online, open-source research. All flight plans and schedules, while reasonable for military units, are fictional.

