

CrazyCreatives Aircraft Market Module for Phpvms

QUICK GUIDE

CrazyCreatives.com AircraftMarket module for phpVMS va system

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Product description

Aircraft Market is a new phpvms expansion which lets your VA buy/sell or lease aircraft and simulates the reduction of the aircraft condition based on several flight factors. Whenever an aircraft falls below a certain (Selectable) condition it will be sent to Maintenance. The Maintenance features of this module also includes several routine Maintenance Checks which are performed automatically once an aircraft reaches a specific amount of flight hours. You can not only buy new planes, the module also simulates an actual aircraft Market where you can buy or lease planes at a reduced price from predefined imaginary companies. It does not allow one VA to actually lease or sell aircraft to another VA! All Market offers are generated virtually by the Module based on several calculations. To make this module work on all Phpvms versions the module uses its own calculations to get the available money due to limitations of the pre-beta phpvms versions financial system. This means that the default phpVMS functions and the Aircraftmarket Module will show different values. (If you feel the need you can integrate the Aircraftmarket Income and expenses to the default Finances yourself if you have some php and mysql knowledge. The expenses from Maintenance, Leasing & Purchases and Income from aircraft sales are stored in separate database tables. We didnt include this to not touch any core functions of your phpvms install).

Features

- Buy/Lease Aircraft (New from Factory or Used at a reduced Price)
- Sell Aircraft
- Aircraft condition simulation
- Aircraft Maintenance simulation (Including routine aircraft Checks)
- Choose a Maintenance Contractor based on price and Service time
- Take Loans (to a limited amount in case you run out of money)
- Easily move all Schedules of a Specific aircraft to another aircraft by just clicking a Button
- Simulates aircraft production/delivery times (shortened to max 1 Month after purchase)
- New aircraft will be added to your fleet from Drafts (you only need to enter an aircraft types specification once, several most common Types are already included)

Installation

1. Upload the admin and core folders inside the "Upload via FTP" folder to your php to your phpVMS root folder and leave the structure intact.
2. import the SQL File(s) inside the "Import this SQL" folder to your phpVMS database via phpmyadmin.

How to use

Maintenance

When an aircraft condition falls below the minimum percentage (Selectable by the user in the aircraft Market settings) or it reaches the hours for the next routine Service interval (see Details below) it will automatically be sent to Maintenance. This means that the aircraft and all its schedules will be disabled until the Maintenance is completed. Based on condition, check type and the selected Maintenance Contractor this can take between a day and some weeks.

You can view the date when Maintenance is finished in the aircraft status list. You can not expedite the process!

If you chose the option in the Settings before an aircraft is sent to Maintenance the module will Check if there is another aircraft of the same type (icao code) in your fleet which has no schedules. In case one is found it will move all Schedules of the aircraft which goes to maintenance to the new aircraft in order to not Interrupt flight Operations.

If you chose the option in the Settings if a PIREP is filed by a pilot with a landing rate higher than -2000ft/min the aircraft is considered as crashed and will be permanently disabled and its schedules deleted! (In case the option above is selected it will first try to move the schedules to another free aircraft.)

WARNING: Do not try to manually enable an aircraft that has been disabled for Maintenance or due to a Crash. The system will automatically disable it again.

Implemented Routine Checks

i did not include A checks since they usually are done overnight and do not interrupt flight Operations.

- C-Check every 1000 hours
- IL-Check every 3000 hours
- D-Check every 5000 hours

Database

You can add and edit aircraft manufacturers and drafts from the admin center.

Aircraft Delivery

Once you lease or purchase an aircraft you can not immediately add it to your fleet. The module simulates a delay of several days (up to 1 Month) for aircraft production and or Maintenance, delivery,... You find a list off all your current orders on the Modules Home page. On the Day of delivery a Button will appear which lets you add the aircraft to your fleet. All you then need to do is enter a registration and base airport.

Loans

The module allows you to take Loans up to a total amount of 70,000,000v\$ in case your VA is new or you ran out of money. Of course you will then have to pay back a monthly rate. To take a loan or view your Loans click the "Loans" button on the top right corner of your module Homepage or the manufacturers Listing.

Additional Stuff

You may echo the aircraft condition on your PIREP Detail or Aircraft Info / Fleet Listing pages using the following procedure:

[GET A FLIGHTS DAMAGE STATS FOR THE PIREP DETAILS PAGE](#)

Available Fields (All values in %)

- enginecond = Current Engine Condition AFTER Flight
- gearcond = Current Gear Condition AFTER Flight
- structurecond = Current Structure Condition AFTER Flight
- totalcond = Overall Aircraft Condition AFTER Flight
- oldenginecond = Engine Condition BEFORE Flight
- oldgearcond = Gear Condition BEFORE Flight
- oldstructurecond = Structure Condition BEFORE Flight
- oldtotalcond = Aircraft Condition BEFORE Flight
- enginedamage = % of Damage the Flight caused to the Engines
- geardamage = % of Damage the Flight caused to the Gear
- structuredamage = % of Damage the Flight caused to the Structure
- totaldamage = % of Total Damage the Flight caused to the Aircraft

You can echo these values on the `pirep_viewreport.tpl` file using the following procedure:

On the very top of the `tpl` file add this :

```
<?php $accond = AircraftMarketData::getconditionforpirep($pirep->pirepid);? >
```

Then wherever you want to display the Info on that page you can echo the field values using the Fieldnames listed above. For example to display the new general condition of the aircraft add:

```
<?php echo $accond->totalcond;? >
```

To display the damage the flight caused to the Gear you would replace "totalcond" with "geardamage" and so on. `<?php echo $accond->geardamage;? >`

GET AIRCRAFT DAMAGE FOR AIRCRAFT/DETAILS OR FLEET PAGES

Depending on the fleet module you are using you need to replace \$aircraft->id with the correct code used in the foreach loop of the module for example \$fleet->id.

<?php echo AircraftMarketData::getaccond(\$aircraft->id);?> = Total Condition

<?php echo AircraftMarketData::getacgearcond(\$aircraft->id);?> = Gear Condition

<?php echo AircraftMarketData::getacenginecond(\$aircraft->id);?> = Engine Condition

<?php echo AircraftMarketData::getacstructurecond(\$aircraft->id);?> = Structure Condition