

FLIGHT SIMULATOR PLATFORM SOLUTIONS FSPS ©

Multicore Next

USER MANUAL VER. 1.0



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1. Introduction

Flight Simulator Platform Solutions – FSPS © is a software development company producing applications mainly for Microsoft's © “Flight Simulator” family of products.

Our old applications Multicore Environment and Multicore Environment Advanced served well over the years the always present problem of setting affinity masks on processors, setting priorities on executable files etc , especially when FSX the most popular simulator out there was written at a time when Multi CPUs was on their childhood.

Multicore Next, with all latest technologies in mind , written from scratch to be more effective – and lighter also itself – than ever , comes to help not only Simmers but in all aspects of starting up a series of demanding applications. You can set the applications you want to execute, save their configuration and then execute them with one push of a button. Draining all available CPU power and share it among applications was never easier.

Welcome to Multicore Next.

2. Minimum Requirements

Multicore Next, can run at any PC that is able to run Microsoft's FSX . However some requirements **must** be met.

Requirements:

- O/S: Minimum: Win 7 – 32 or 64 bit (Not tested on virtual machines)
- A multi CPU (Inter or AMD , with two physical cores or more)
- Microsoft's NET Framework 3.5 SP1 (mandatory)
- Up and running internet connection for activation and license checking of the product on each application's start-up. Application will function offline only for limited start ups.
- PDF viewer application for reading the manual.

Limitations:

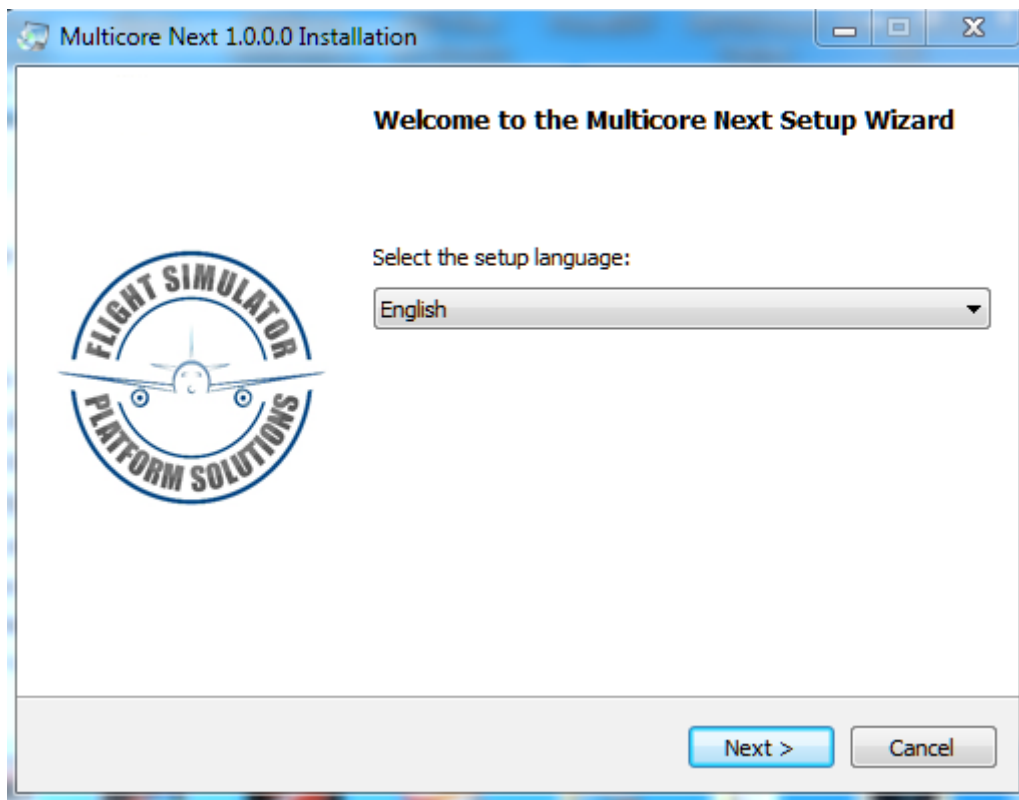
- One active installation on only one PC at any given time. (Checked via online validation after every installation.) Users can have the application install on multiple computers moving the active license around using the “Transfer License” function.
- Multicore Next must run at the PC you want the applications be executed so it cannot run via network.

3. Installation

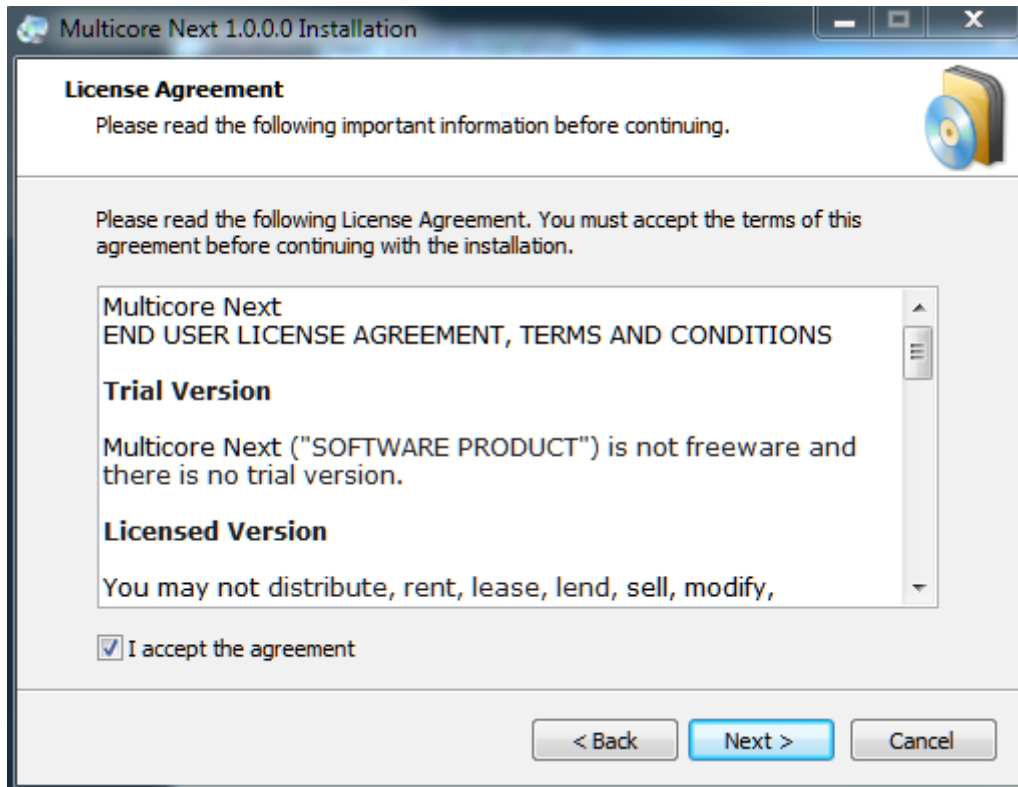
After your purchase from the web store of your choice you will be given a link to download the software and a serial number. Keep this combination of letters and numbers (your serial number) somewhere safe as it is your software's unique identification. Never lend it to anybody, keep it safe, and provide it in every communication with FSPS's support concerning Multicore Next.

The executable file is named `Multicore_Next_Setup.exe` and to start the installation you will have to double click on it after downloading is complete.

Do so and you will see the following screen:



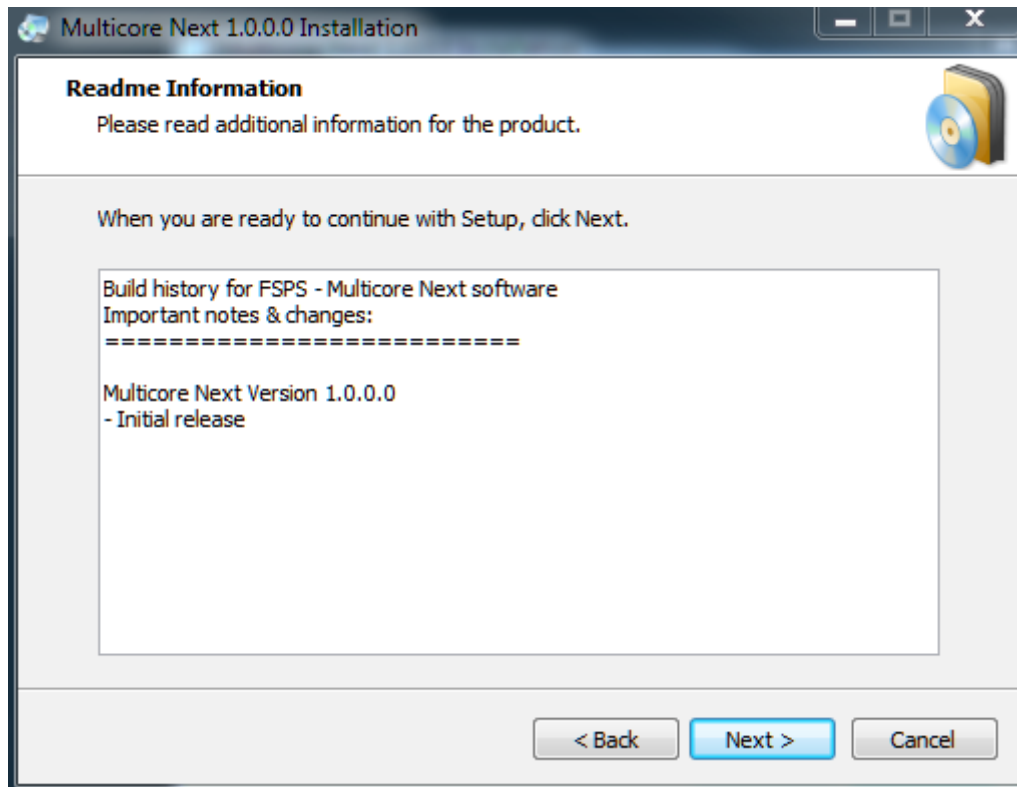
Please close other applications and click next to continue the setup.
On the next screen you will be presented with the Licence agreement.



Please read it, click on “I accept the agreement” and then press Next > to continue.

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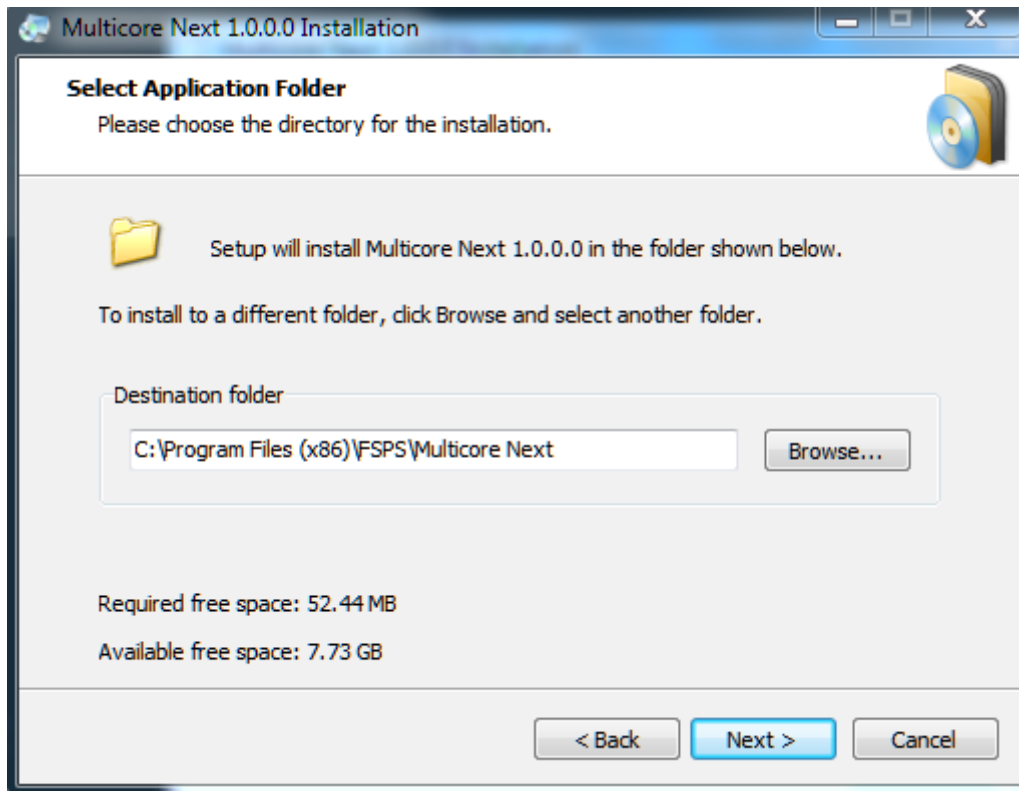
Next step is reading the version changes history...



Press next to continue.

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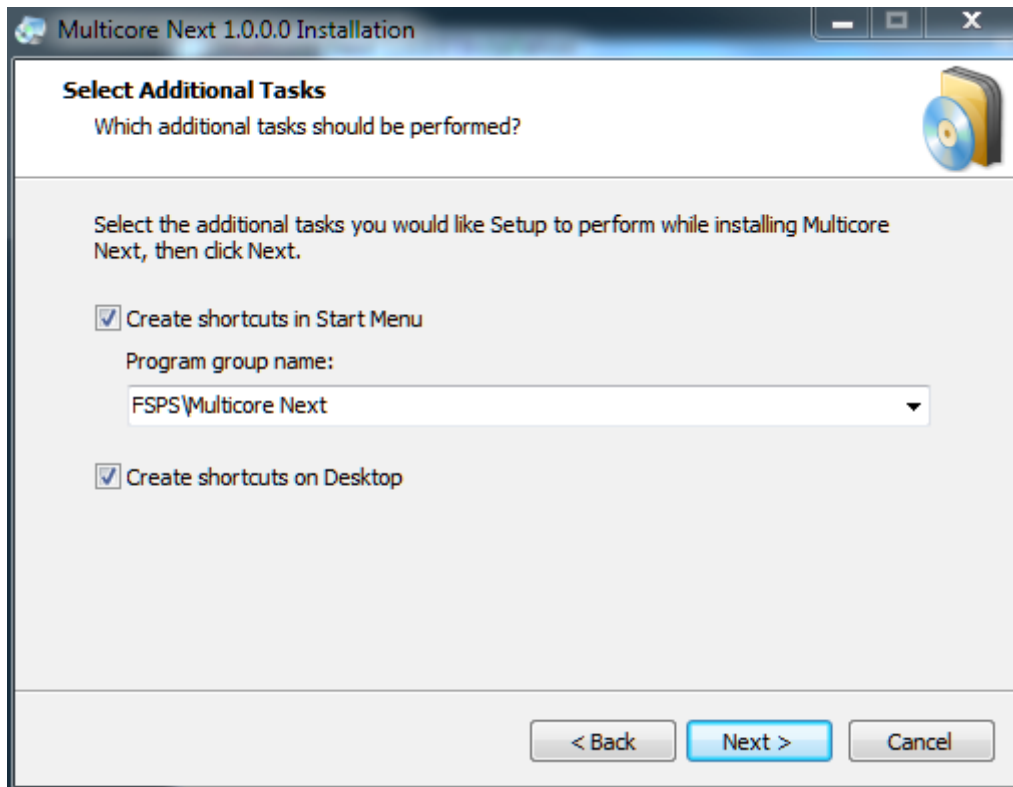
In the next step you will be asked where Multicore Next is to be installed.



Choose the directory you want , as I did above, and press next to continue.
CAUTION: If you are running a x64 system make sure you install the product on a Program Files (x86) folder !!! also **NEVER INSTALL THE APPLICATION INSIDE FSX FOLDER!**

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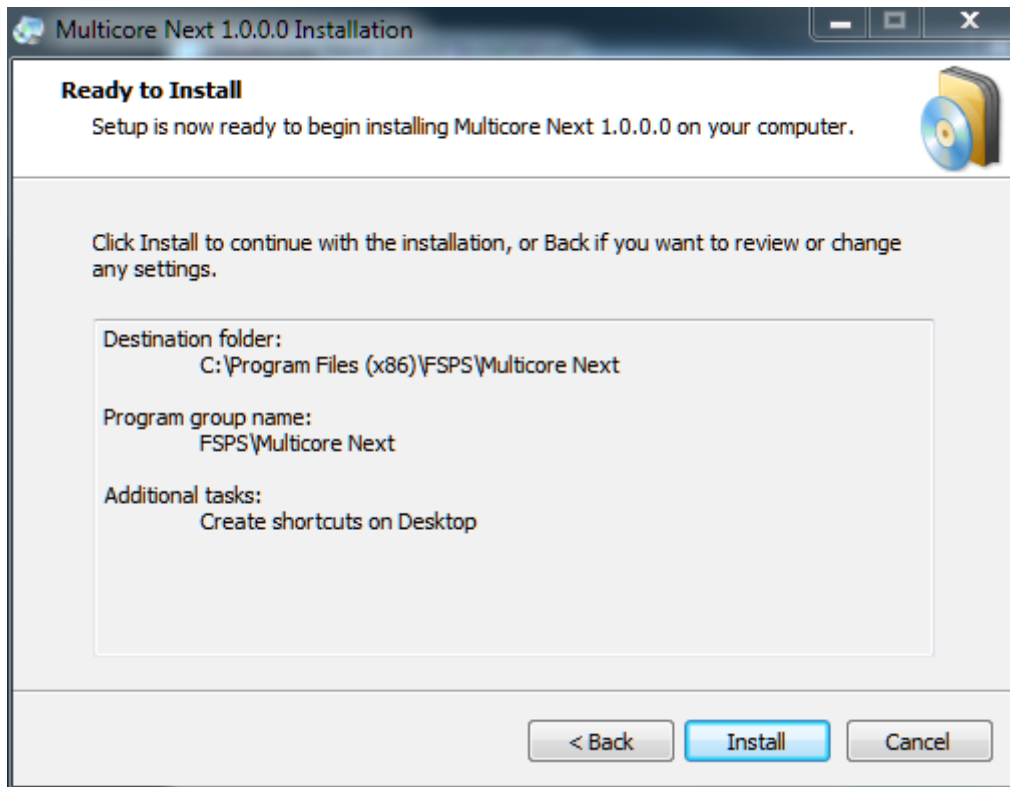
Next step is for shortcuts in the Programs menu and on the desktop



Make your choice and press next to continue.

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Finally :



Read the summary of what and where, is about to be installed and of course press Install to continue.

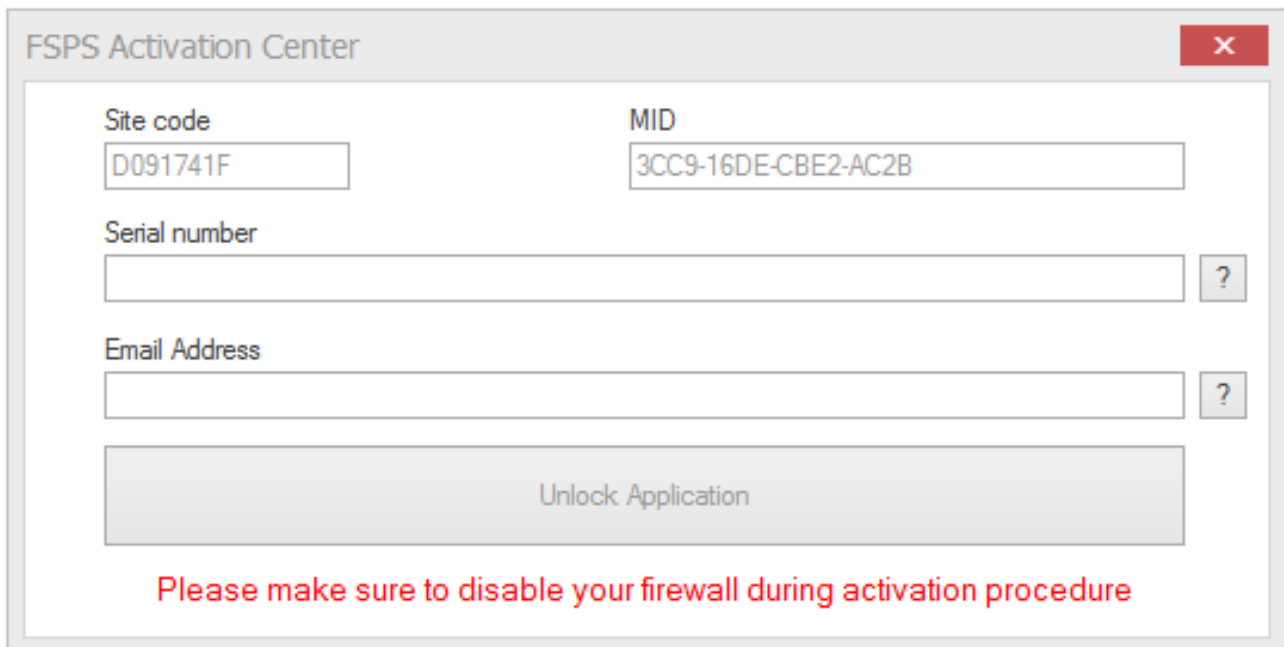
The progress will be shown and soon the final setup screen will be shown.

4. Activation

You should now be able to see Multicore Next's desktop icon:



Double click on it will guide you (on this first installation) to the new FSPS Activation Centre screen (You need a working internet connection at this point) and if you have a firewall running please shut it down momentarily. (Or advise it to allow FSPS applications always be able to contact Internet – Activation.exe , removelicense.exe and Multicore Next.exe should be able to contact FSPS server at all times !

A screenshot of the 'FSPS Activation Center' window. The window has a title bar with the text 'FSPS Activation Center' and a red close button. Inside the window, there are four input fields: 'Site code' with the value 'D091741F', 'MID' with the value '3CC9-16DE-CBE2-AC2B', 'Serial number' which is empty, and 'Email Address' which is empty. To the right of the 'Serial number' and 'Email Address' fields are small buttons with question marks. Below these fields is a large grey button labeled 'Unlock Application'. At the bottom of the window, there is a red text message: 'Please make sure to disable your firewall during activation procedure'.

On this screen you can see two codes created, the “Site code” and “MID”, codes that identify your PC hardware. The slightest change – even a different HD for example –

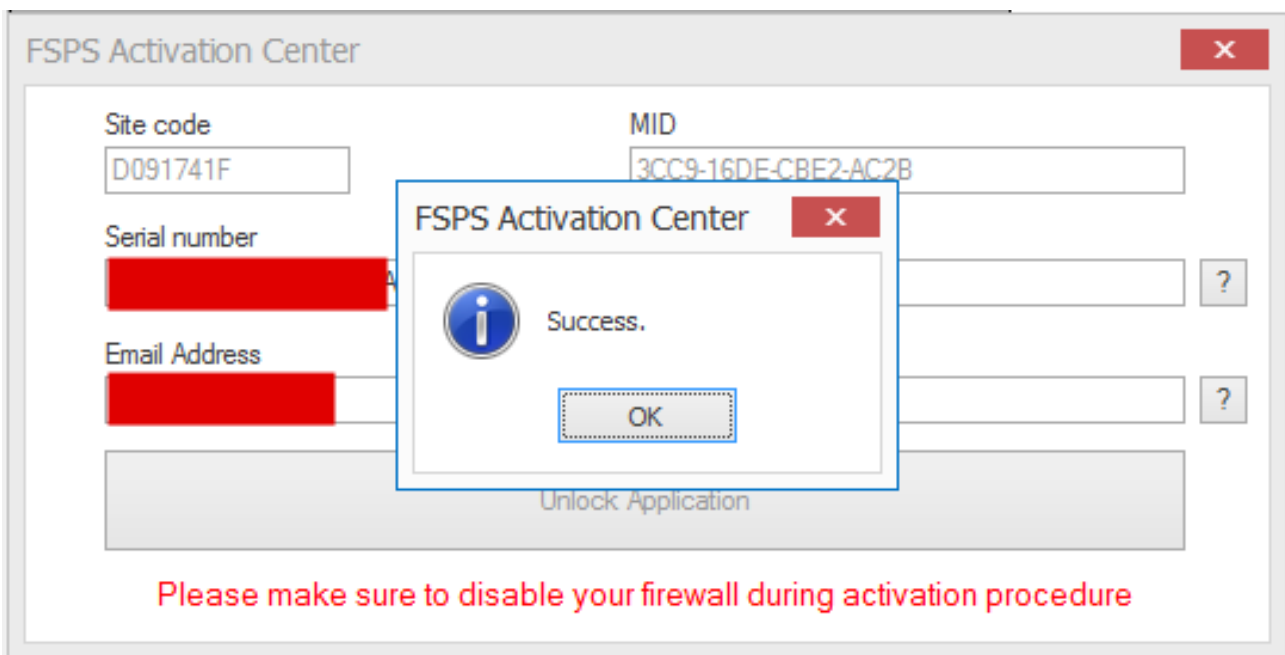
will change these codes, thus making impossible for the Anti Piracy system to mistakenly ID two different computers.

All you have to do now to activate the software, is to insert your serial number in the first field marked “Serial number” and a valid email address in the second field marked “Email Address” and press the - now available - “Unlock Application” button.

Please wait as the software is communicating with FSPS servers, uploading your serial number and registering your software. (Do not click to activate more than one time)

If all goes smoothly the following screen will appear:

Pressing OK (below the Application unlocked) will shut-down the FSPS Activation Centre and will launch Multicore Next.



If you encounter an error like **“Error all licences in use”** please contact support at: <http://support.thefsp.com> using our ticket system, with your serial number, your Site code and your MID included, as either something has gone terribly wrong in the activation or you are already installing on a second computer...

Getting an error: **“Invalid Serial ... ”** means you are not entering the serial number correctly. Copy pasting serials sometimes fails as we also copy space characters at the start or the end of the serial.

5. The Upper Menu:



The upper part of the application contains some important links and functions:

- 1) Tech forum: This will open your internet browser to our Official forum where you can exchange views with other users. It is not the default way of support.
- 2) Web home: This will open your internet browser to our webpage
- 3) Support Ticket System: Will guide you to <http://support.thefsp.com> the official case-by-case FSPS support system. Please take the time to expand explaining the problem so we would help you better !
If you are contacting us regarding a serial number problem ALWAYS mention your serial number !
- 4) Manual : Opens this manual on your default PDF viewer application.
- 5) Go to configuration (or run mode if already in configuration mode): Will switch you to configuration menu where you can set up all application's aspects. (Which app to start, how, in which order etc – More on this later)
- 6) Execute Group X : Will start all applications add on that group on the specified sequence. (More on this later)
- 7) Minimize after execution: As the name implies , Multicore Next will minimize itself (to tray) after a group of applications is executed.
- 8) License Transfer : Will initiate the License Transfer procedure!
- 9) Check for New Version: Will check FSPS servers for a new version.

IMPORTANT . PLEASE READ CAREFULLY.

As previously described the application can be installed and function on one computer only. The system that checks for validity of the information however is so secure that even uninstalling the application will not delete the licence information from the FSPS servers. So ...

If you want to change/alter your hardware on the same PC that you have Multicore Next installed on, if you want to install on another computer or if you want to uninstall Multicore Next, in order TO AVOID APP LOCK UP on the next installation, press “Licence Transfer” button before you do anything.

(You need a working internet connection at this point and firewalls shut-down momentarily)

This will , after your confirmation, shut down Multicore Next, and remove the Licence information from our servers, thus enabling the application to be installed on a different computer, or in the same computer after the big hardware changes!

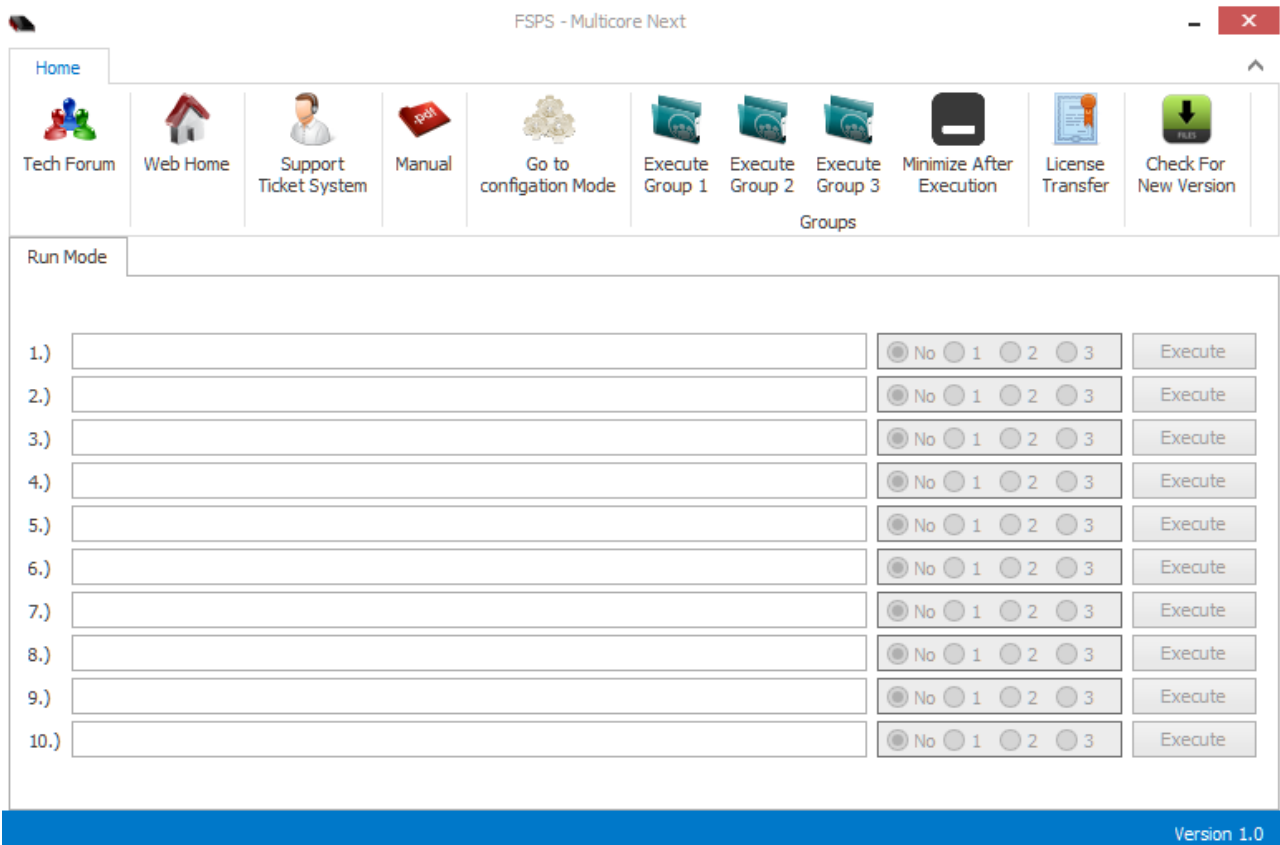
So before any change of hardware or Operating system, before any un-installation or if you just want to have the software installed and used on a different PC, start up the Multicore Next and press “Licence Transfer”.

Then do your changes in hardware or Operating System, install Multicore Next on a different computer etc.

Just activate the software using your serial number and no problem... you can use the application normally.

6. The Main Menu/Application use

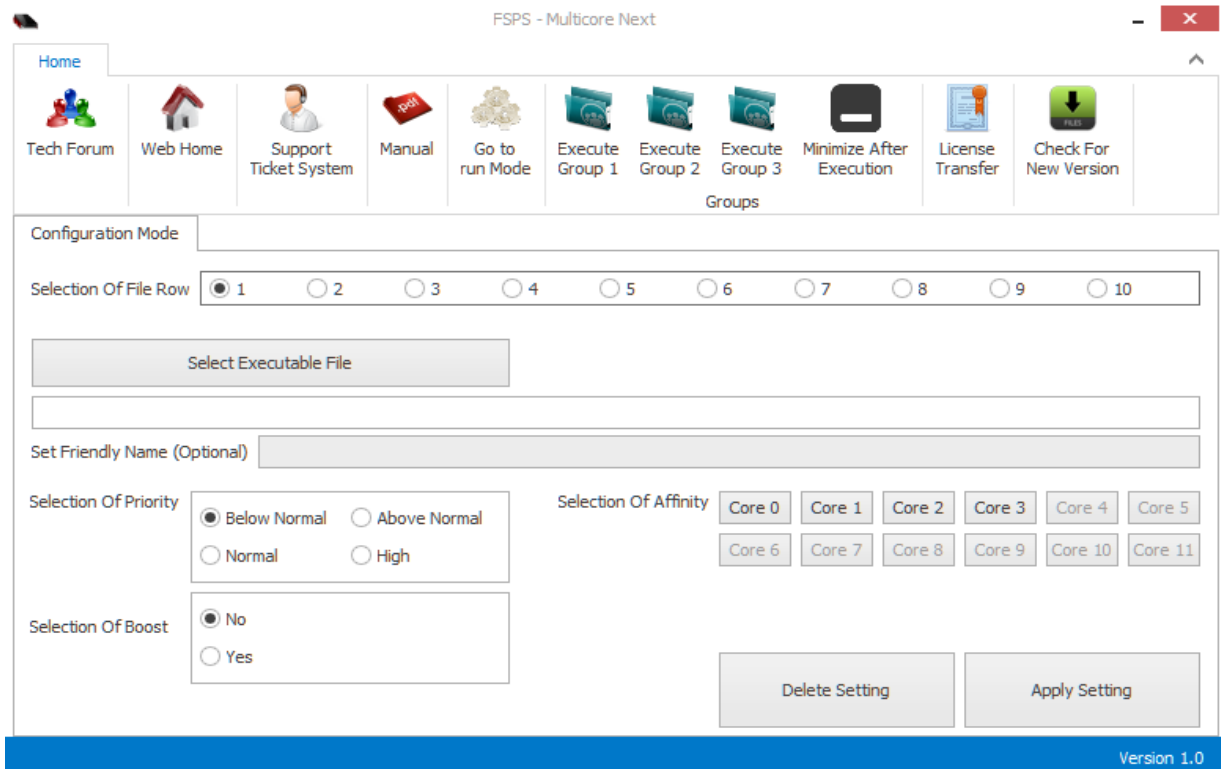
Multicore Next 's main menu looks like this:



As you see everything is blank and waiting for your input. In this main page you will be able (after setting them up) the applications you had configured for execution – and if you like start each one of them manually.

However to do so you will need to setup those in your desired order. So press now “Go to configuration mode”

The following screen will be visible:



Here you can setup everything in Multicore Next.

On **“Selection of File Row”**: you actually set the order you wish the applications be arranged on main menu, which is also the order they will be executed when you press execute group X button.

Some users want the secondary applications be executed first, others want FSX to be executed first etc.

Then you should press **“Select Executable File”** button to find and select the file you need. Its path will be shown right below after selection.

You can set a **friendly name** for it (to avoid the probably long path)

Then the **“selection of priority”** - what priority the application will get compared to others.

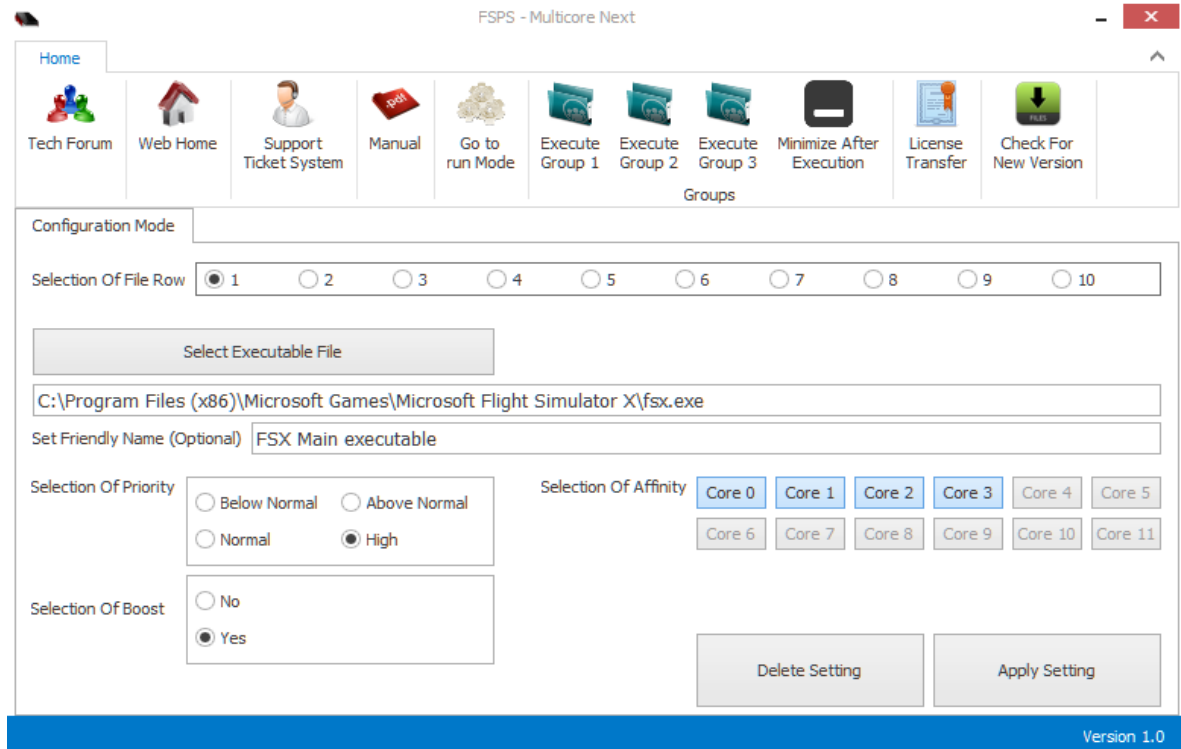
Then the **affinity mask** (On which processors the application will run).

For a demanding one you may want to select all cores , on a tiny secondary application a single core may be enough etc. **Mind that if you own a dual core machine and you have hyper-threading enabled you will see 4 cores on the selection. (and so on 8 for a 4core H/T on machine etc)**

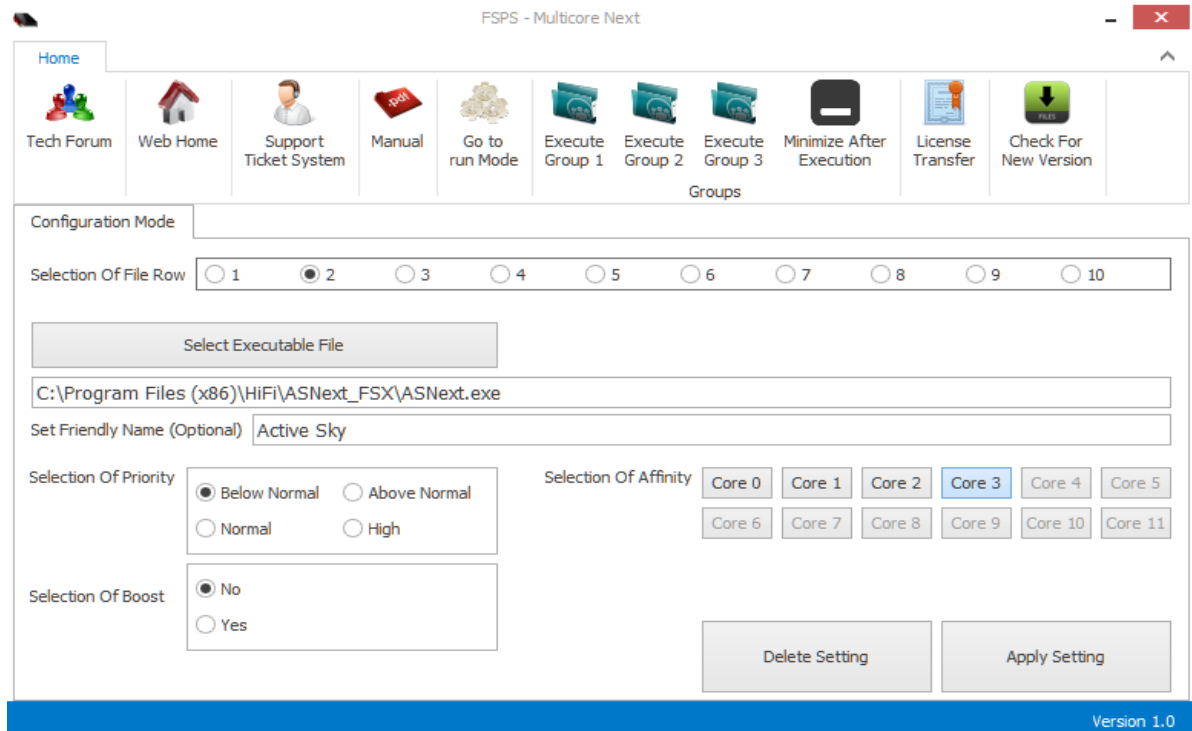
Selection of Boost (if selected ON) will give you 20% more CPU power allocated to that application (very nice for CPU hungry apps).

Remember to press Apply Setting after setting each application for the changes be applied and remembered.

See below a typical setup:
First with the FSX executable



Then with Active Sky Next (© HiFi Technologies) , notice we selected row 2.

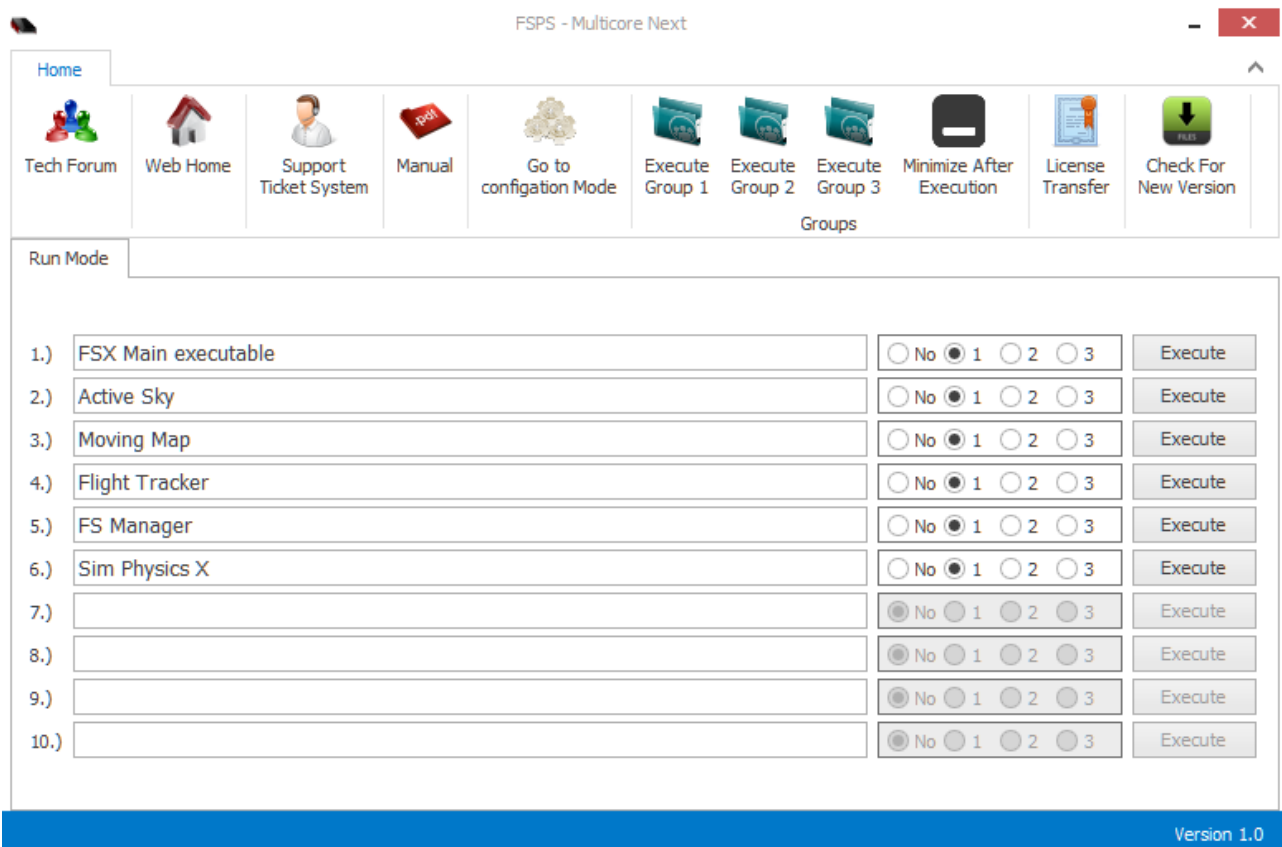


And so on , for all your desired applications.

(Also notice that in ASN , we selected Below Normal priority with no boost and only the last core to be used by the application. That's typical for secondary applications that don't need the vast amount of power FSX needs.)

After finishing configuring all rest applications (remember to press “Apply Setting” to save them each time) we press “Go to run mode” so we would start executing...

It will now be like this:



You see also next to the name a No,1,2,3 selection field. That is the group the application will belong. i.e. if you select “1” to all , and press “Execute Group 1” on the upper bar all applications will run one after the other. That's the one (and main) way to do it.

But if you like to run an application “alone” you can press directly the “Execute” button next to the group selection. (It would be a good idea to remove it from any group probably selected and set it to “No” to avoid trying to execute twice later when you run the Group execution.

As you see the application's use is fairly simple , but the results will surprise you...
You won't believe how much power you may get, especially when running old CPU-hungry apps, written for “ancient” O/S like Windows 98 ...

7. Frequently Asked Questions

Q: Which cores should I select?

A: According to the application! FSX (an old app written for an old O/S) will need all power it can get. Prepar3D Simulator that is more GPU-hungry may run with the same quality on 7 of your 8 available cores , for example. Small external applications will only need one core. Select the last one available for them, it is a really waste of resources to run them in all cores.

8. Changes History

Version 1.0 :

- Feb 2016 : Initial release

9. Who we are...

- **Achilles Philippopoulos, GREECE** – is the Founder , President and Head Developer of FSPS. For long time fun of Flight Simulation, as a hobbyist and a Cockpit Builder he decided to compine his years of experience together with his unlimited programming skills and as a result FSPS was created back in start of 2010. Successful businessman on his full-time occupation, draw a non-ending line to success for FSPS and keeps on that spirit to this day.
- **Babis Delagrammatikas , GREECE** – is the General Manager , Assistant Developer and Head of Support of FSPS. From the start at 2010, near his friend Achilles, helped on the first FSPS creations, finally joined FSPS officially in 2012. For years a hardcore simmer, computer expert since his first touch with a ZX Spectrum back in 1983, he attributes with his experience on programming, development, debugging and design of FSPS applications.
- **The beta team** – (Gerard, Alfonso, Jonathan , Sebastian, Martin, Michael, Robert, Kyriakos, Fotis, Angelo, Hans, Ignas, Mike, Bert and all others who helped over the years and we may forget...)