SPACESYS USER MANUAL

Here you will find the basic info on how to use SpaceSys, its basic controls, and hotkeys.
This will be changed and updated as we implement new functions so check back after updates to see what's new.

First, if you have not found the SpaceSys config app, you can find it in your installation folder under /Bin directory.
With it you can change the basic settings inside the application, like graphics detail, environment settings and audio settings.

Also you can configure your key settings there, everything is configurable so if you prefer your own keys you can change them also.
Mouse settings are to be implemented in the near future, for now you cant invert it or change the sensitivity.

Using SpaceSys itself is not hard, if you played any first person games (FPS) or RTS you will feel like at home inside.
To fly fast to a space you can just double click with left mouse button and you are there, also you can use double tap W key, and to go back into previous space just double tap S. Also on keys A & D you can jump between spaces or interest points (doubleclick)

The movement keys are:

W: forward
S: back
D: right
A: left
SPACE: up
L_Shift: down
Mouse Scroll button : look

Also to navigate up, down, or to strafe left or right you can just come with the mouse to the edge of the screen.

CTRL+MMB (middle mouse button): move player in vertical plane (left / right / up / down)
CTRL+ALT+MMB: move player in horizontal plane: (fwd / back / left / right)

Those are the basic controls

Now for function keys that you can use and people are accustomed to:

ESC: cancel action
TAB: select next item

F2: rename
F5: Refresh
F6: Kinect on
F7: Kinect off
F8 : free view (disabled)
F9: centered view (disabled)

CTRL-C: copy
CTRL-V: paste
CTRL-X: cut
CTRL-A: select all

ENTER: (execute)
BACKSPC: go back in space
DELETE : delete if you have something selected; also browse back while browsing trough a folder.

MENU KEY : context menu

CTRL-Q : quits SpaceSys
CTRL-ALT-Q : quits SpaceSys and resets worlds state. (deletes all icons and spaces, returns to normal)

CTRL-ALT-I: rotates through different info levels

Space / WIndows / Icons / Menus related controls:

CONTEXT MENU (MENU key or RMB) anywhere in global space: show menu to create new space or interest point.

PAUSE key: Toggle Live Windows on / off if Live Windows feature enabled

LMB click on gizmo (small ball at the bottom of every space) / icon / window / menu pin and drag: move space / icon / window / menu in horizontal plane
MMB Click on any selectable item makes the camera focus to that item, you can scroll to zoom, or use WASD / UP / DOWN keys to rotate around focus, or edge scroll around focus.

CTRL + LMB click on gizmo/ window / menu pin and drag: move space / window / menu in vertical plane
RMB click on gizmo / icon / window / menu pin and drag: rotate space / icon / window / menu
Mouse button 4 click on gizmo/ window / menu pin and drag: move items in vertical plane

TAB / double [RIGHT] key (default: D): Move forward through open spaces / windows if space / window is active
CTRL + TAB / double [LEFT] key (default: S): Move backward through open spaces / windows if space / window is active

5th MB Double click: Move forward through open spaces / windows if space / window is active
4th MB Double click: Move backward through open spaces / windows if space / window is active

LMB double click / 5th MB click on space / window / menu under cursor: Fly to item
Press double [FORWARD] key (default: W) on space / window / menu under cursor: Fly to item

Press double [BACK] key (default: S): Fly to previous item
4th MB click: Fly to previous item
Ctrl + 4th MB click when space is active: navigate back to previous folder

LMB Double click on icon: Start default action (open / start app)
LMB Double click on folder icon in global space: Browse folder in new space
LMB Double click / 5th MB click on folder icon in space: Navigate to folder in space

Kinect users can use hand control for the application, the controls behave as you normally would expect, with the addition that you can choose, start, or fly towards space or interest points by moving right hand forward. With the left hand you control the world movement, and with the right hand you control the mouse or look.
Voice controls will be implemented soon we hope, but only if there are enough interested users.

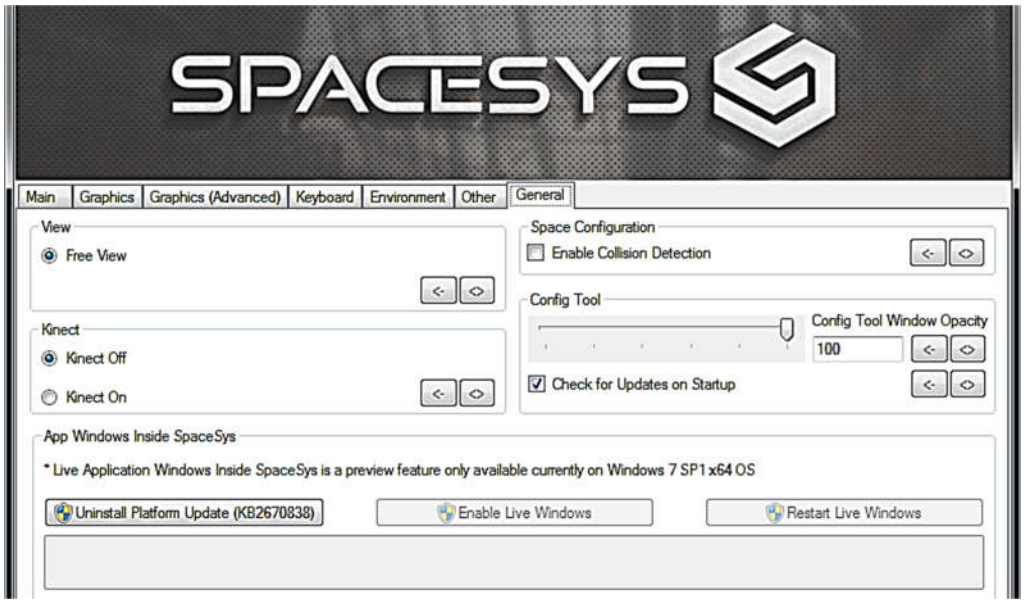
ENABLING LIVE APPLICATION WINDOWS

Live Application WIndows preview feature inside SpaceSys is currrently only available on Windows 7 x64 SP1 OS, support for other versions of Windows will be added in future development cycles. If your OS is different, all the buttons related to Live Windows feature will be disabled in current version of SpaceSys.

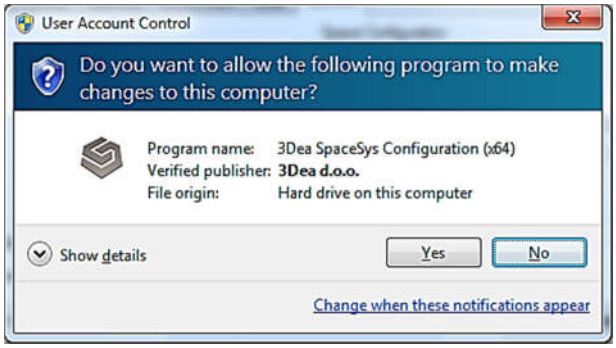
Live Windows currently works by using a proxy to D3D10 runtime with a single version of D3D10_1.dll. This means that a single Windows Platform Update (KB2670838) needs to be uninstalled from the system if it is already applied, in order to be able to use Live Windows feature. When you run SpaceSys Config tool, it searches for that single platform update in a background thread, so you may have to wait for a few seconds for the Config tool to find what version of D3D10 runtime you have installed on your system. After this had been established, Config tool will allow you to:

1. Uninstall KB2670838 if it is already installed, if you wish to allow Live Windows feature to be used, or
2. Reinstall KB2670838 if it is not installed, or you wish reinstall it. If you reinstall KB2670838, Live Windows feature will not be available

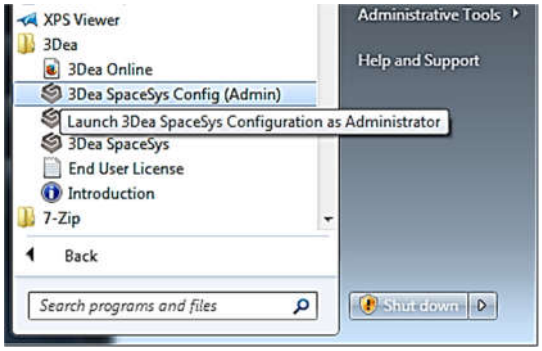
This is how the Config tool looks on a Windows 7 SP1 x64 OS with KB2670838 applied (you can see the UAC shield applied to the buttons because actions related to Live Windows feature require elevated privileges):



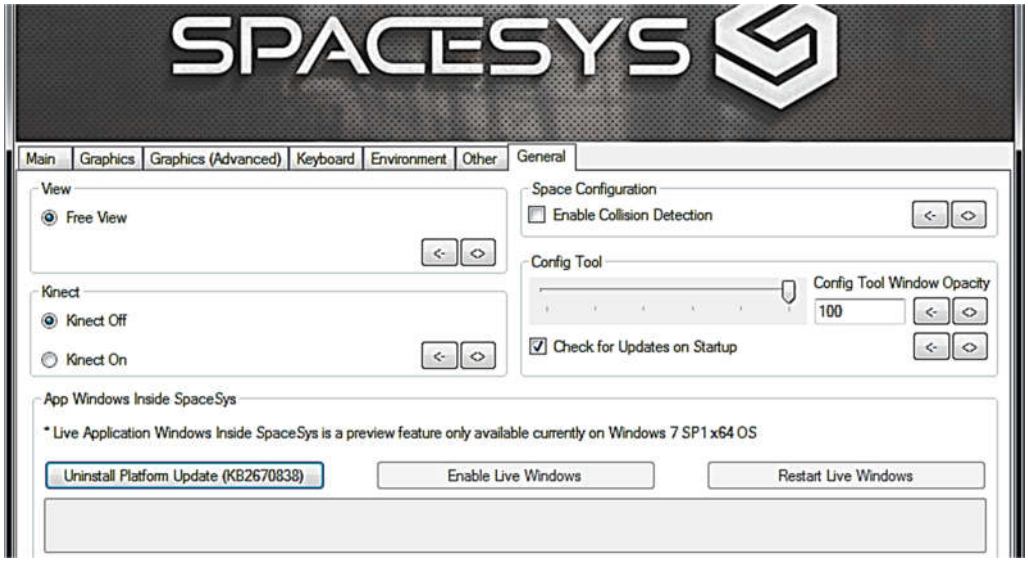
If you click on the [Uninstall Platform Update (KB2670838)] button, an UAC elevation prompt may pop first if Config tool is running without elevated permissions:



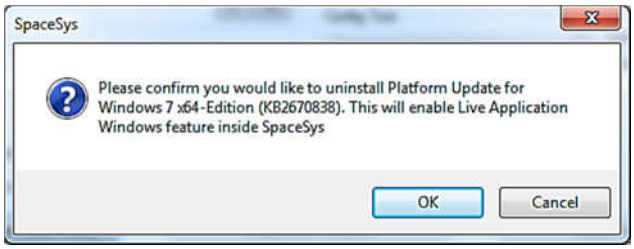
After accepting UAC elevation, the Config tool will restart with elevated permissions. On some systems, Config tool may fail to restart itself and will apper to have only closed. If this situation repeats, you may use the shortcut from Program Menu to launch Config tool with elevated permissions:



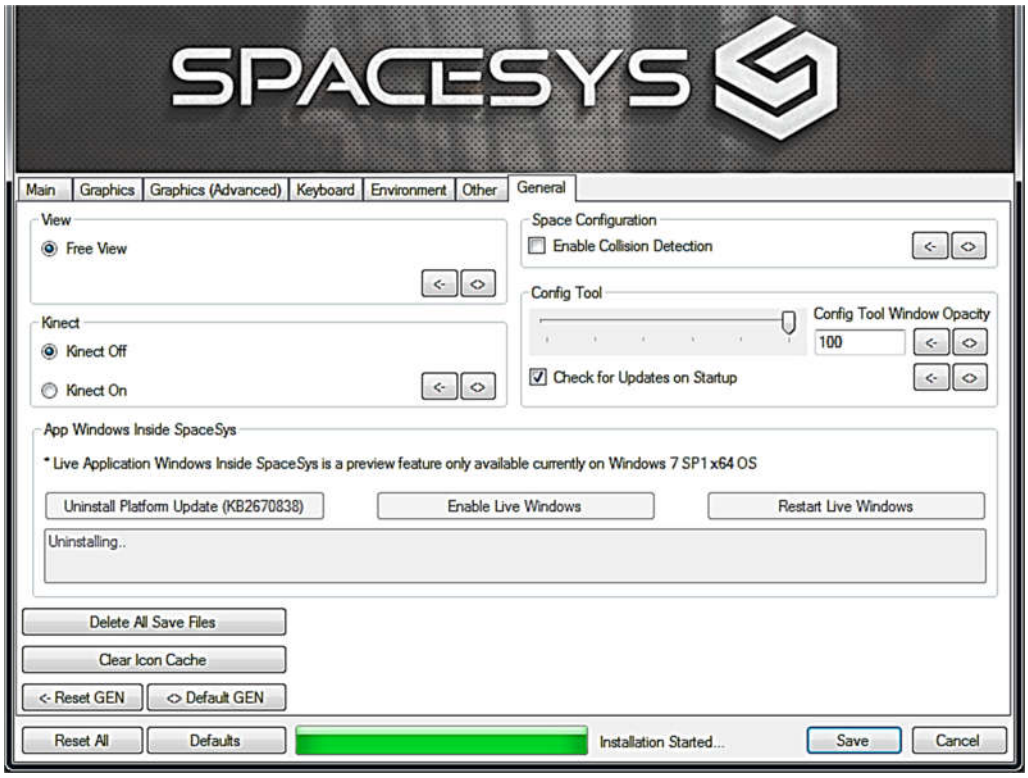
After restarting Config tool with elevated permissions, it should look this way:



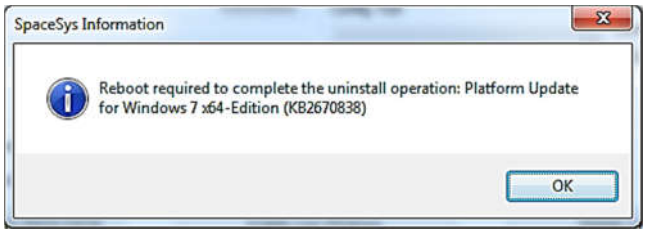
Clicking the [Uninstall Platform Update (KB2670838)] button will pop a confirmation prompt:



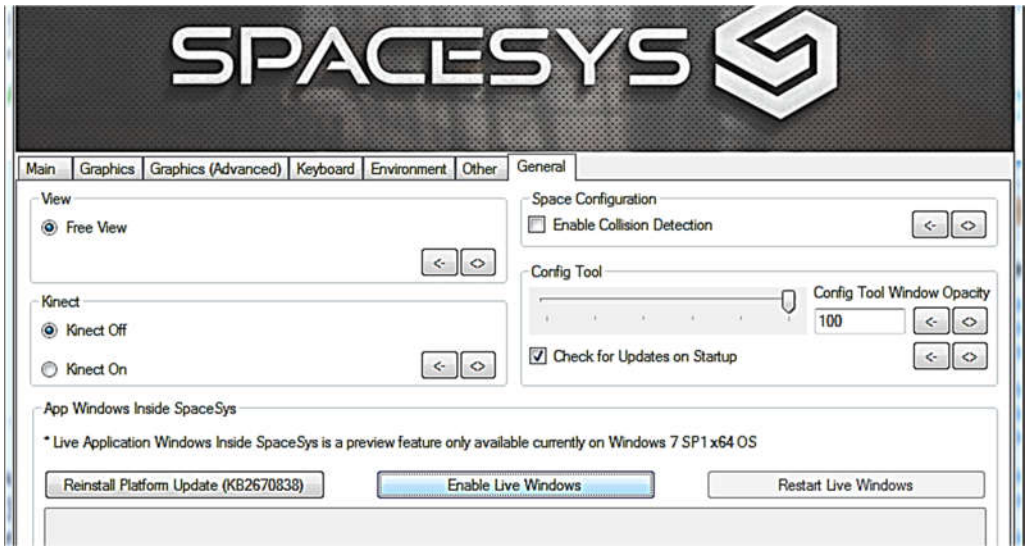
After accepting, Config tool will start the uninstallation of the Platform Update (KB2670838):



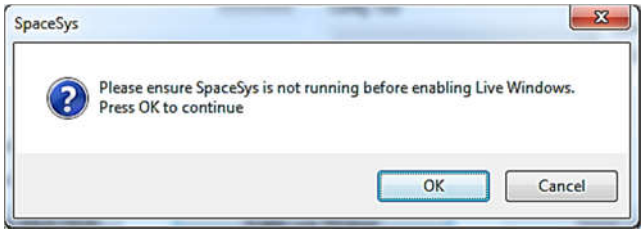
In a few moments the uninstall process should complete with a dialog informing you that a reboot is required in order to finish the uninstall process:



After restarting your computer, uninstall operation will complete and the Config tool will look like this (with elevated permissions):

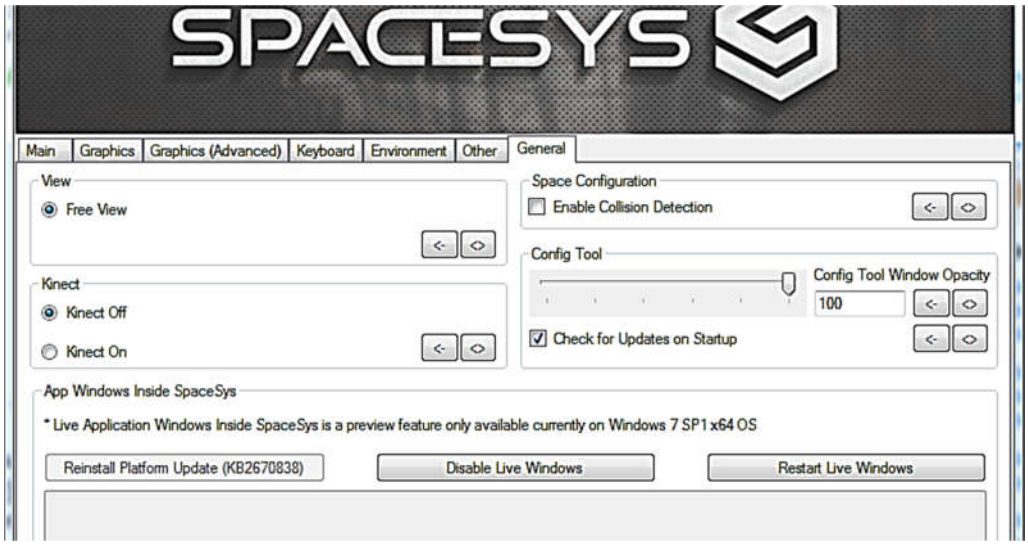


You can now enable Live Windows by clicking the [Enable Live WIndows] button. After accepting the confirmation prompt:



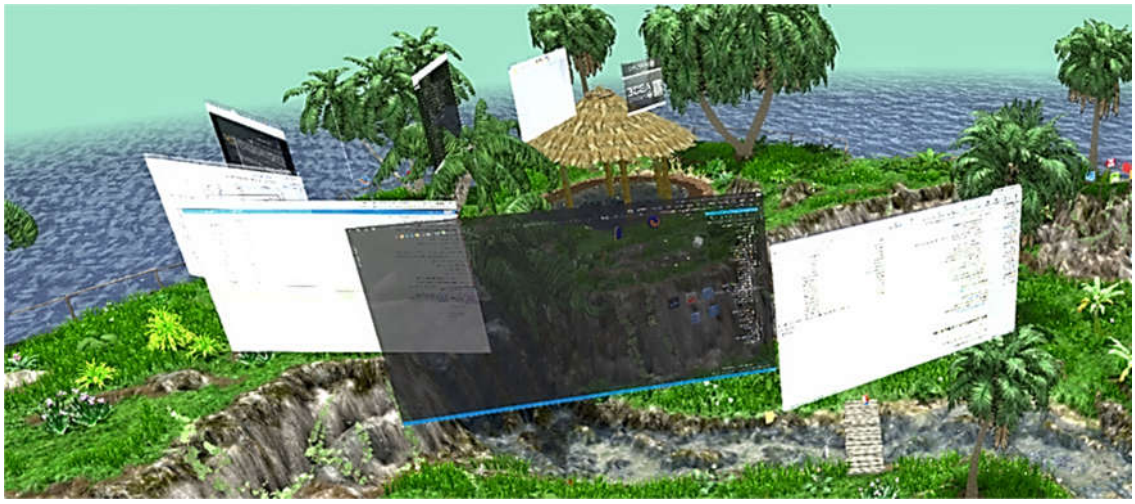
Config tool will restart the Desktop Window Manager service. This process may last 2-3 seconds and your screen may flicker twice during that time. This is not unusual and is due to restarting DWM service. In rare occasions, this action may lead to issues with display driver, but is in no way dangerous to the system itself. Anyway, this is a preview feature in development and you should not use it if you are doing important work that is not saved. You should also start this action when SpaceSys is not running.

After completing this action, the Config tool should look like this:



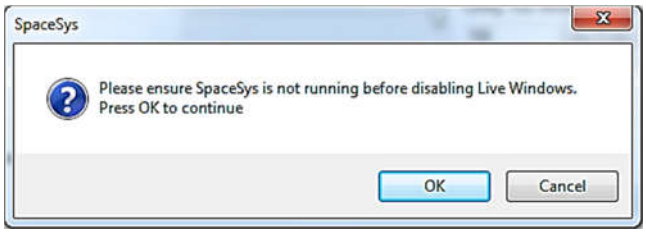
With Live Windows enabled, you can launch SpaceSys and will find windows of open applications as objects inside SpaceSys environment. We shall explain in detail later how these window objects may be manipulated.





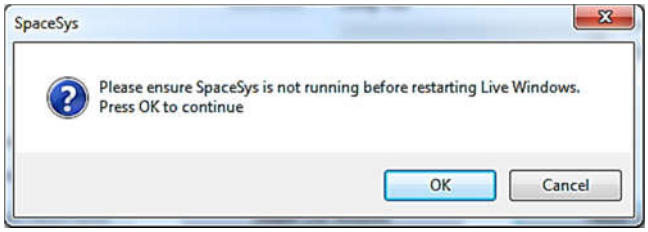
SpaceSys running with Live Windows enabled

After exiting SpaceSys, you may disable Live Windows feature until you need it again in SpaceSys. After confirming the prompt:

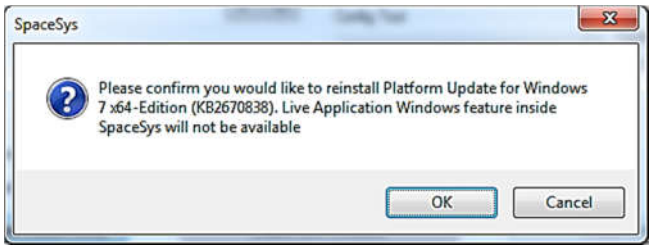


... the Config tool will return original modules in place, for the best compatibility and performance. This action can also flicker your screen because of restarting DWM service.

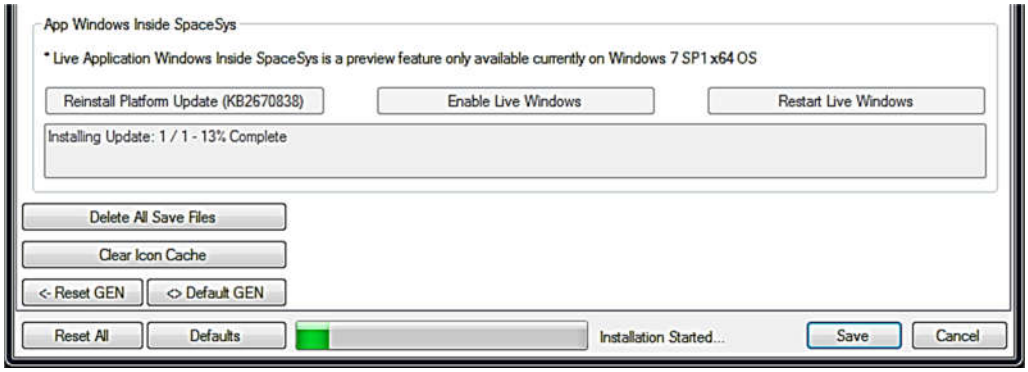
If you experience performance issues (slowdown, slower refresh in SpaceSys..) after running your system with Live Windows enabled for a longer time, you may click the [Restart Live Windows] button to reinitialize the Live Windows and it will reinitialize the function:



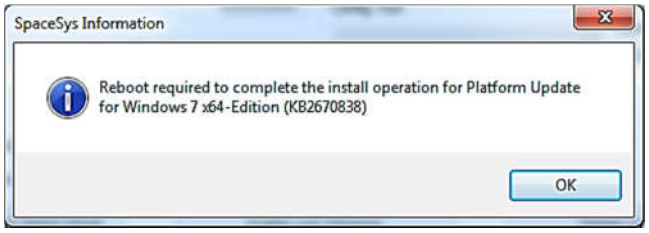
If you don't want the Live Windows feature to be available any more, you may reapply the Windows Platform Update (KB2670838) by clicking the [Reinstall Platform Update (KB2670838)] button (this button is only enabled when Live Windows is not enabled). After accepting the following prompt:



The Config tool will start the install operation:



This operation can take a few minutes to complete with the information about reboot requirement:



After restarting your system the install will finish and you will no longer be able to use Live Windows feature in SpaceSys until uninstalling the KB2670838 again.

We will explain how to manipulate and use Window objects in SpaceSys in a different post.