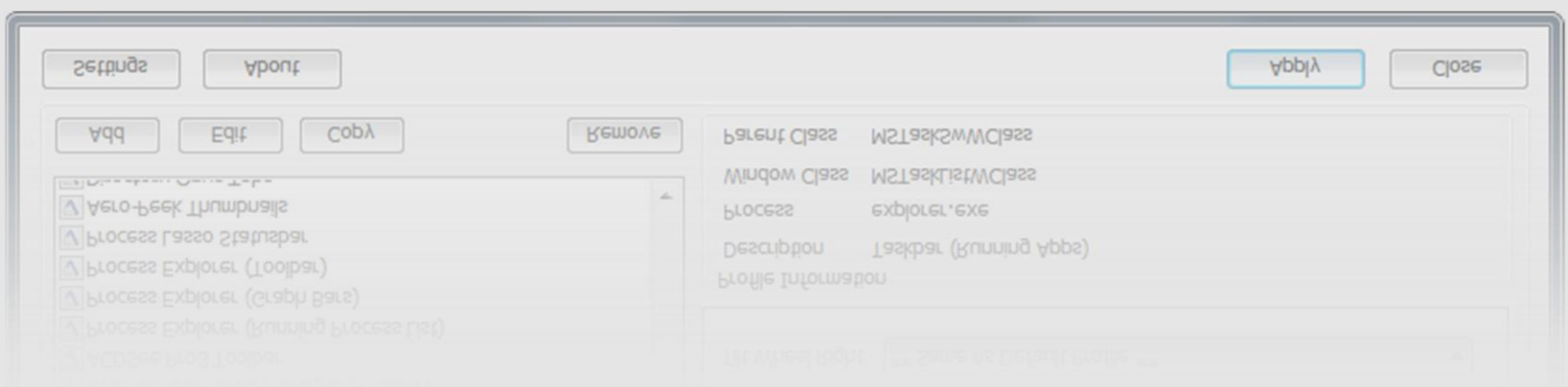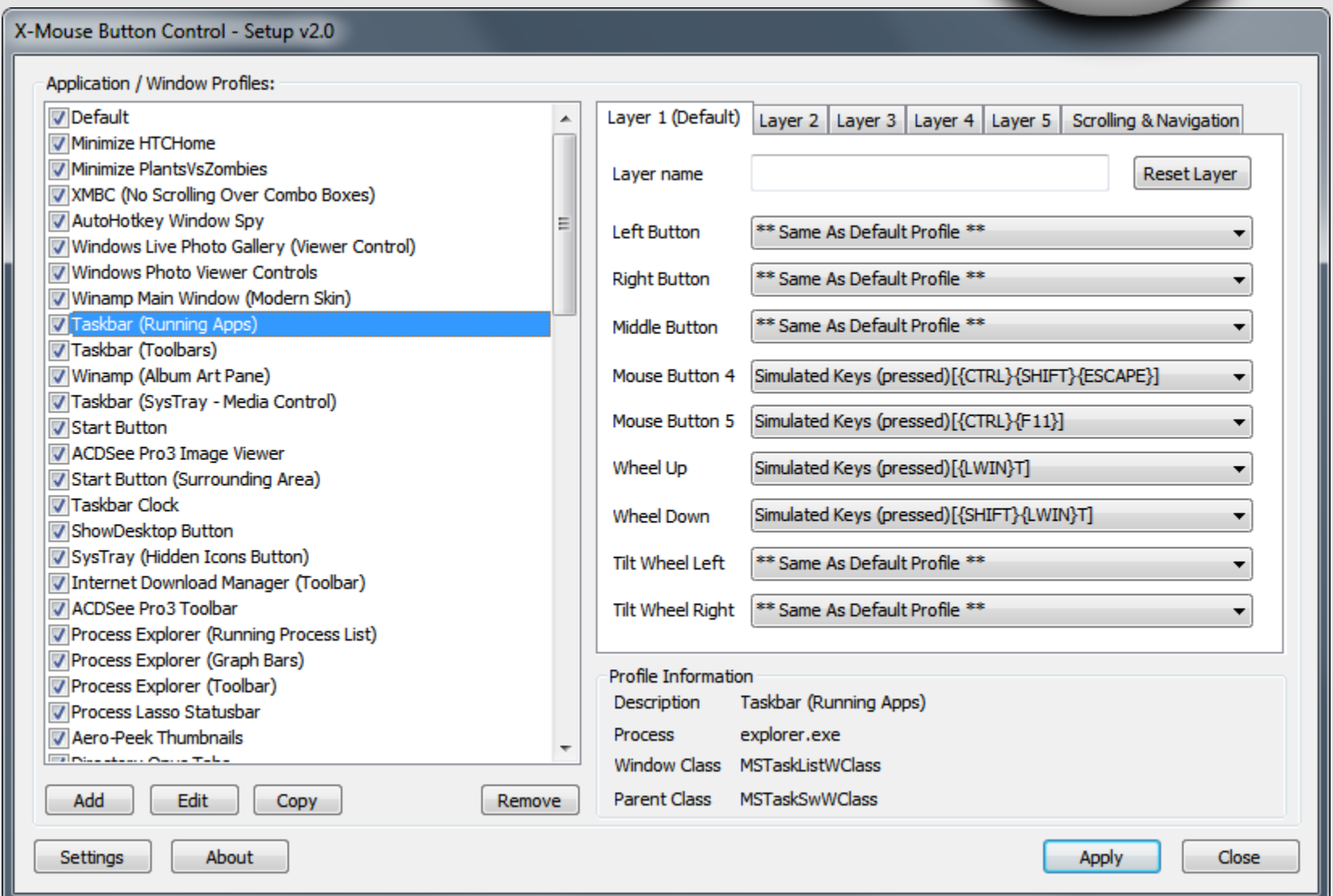# X-Mouse Button Control
User Guide

X-Mouse Button Control is a Windows application for remapping your mouse buttons. It is not a driver for pointing devices, but rather works in conjunction with the installed drivers. For a long time XMBC has supported binding buttons to an individual process and now includes binding to specific window parts. XMBC is not strictly for button mapping, various navigation customizations are available; tuning the pointer and scroll wheel to your likes.

To access the setup dialog double-click the **XMBC icon** in the notification area or run the program from the **start menu.** The tray icon may be automatically hidden on Windows 7, drag the XMBC icon from the hidden section over to the area next to the clock and it will show permanently.

X-Mouse Button Control - Setup v2.0

Application / Window Profiles:

- ☑ Default
- ☑ Minimize HTCHome
- ☑ Minimize PlantsVsZombies
- ☑ XMBC (No Scrolling Over Combo Boxes)
- ☑ AutoHotkey Window Spy
- ☑ Windows Live Photo Gallery (Viewer Control)
- ☑ Windows Photo Viewer Controls
- ☑ Winamp Main Window (Modern Skin)
- ☑ Taskbar (Running Apps)
- ☑ Taskbar (Toolbars)
- ☑ Winamp (Album Art Pane)
- ☑ Taskbar (SysTray - Media Control)
- ☑ Start Button
- ☑ ACDSee Pro3 Image Viewer
- ☑ Start Button (Surrounding Area)
- ☑ Taskbar Clock
- ☑ ShowDesktop Button
- ☑ SysTray (Hidden Icons Button)
- ☑ Internet Download Manager (Toolbar)
- ☑ ACDSee Pro3 Toolbar
- ☑ Process Explorer (Running Process List)
- ☑ Process Explorer (Graph Bars)
- ☑ Process Explorer (Toolbar)
- ☑ Process Lasso Statusbar
- ☑ Aero-Peek Thumbnails

[Add] [Edit] [Copy] [Remove]

[Settings] [About] [Apply] [Close]

Layer 1 (Default) | Layer 2 | Layer 3 | Layer 4 | Layer 5 | Scrolling & Navigation

Layer name [   ] [Reset Layer]

Left Button	** Same As Default Profile **
Right Button	** Same As Default Profile **
Middle Button	** Same As Default Profile **
Mouse Button 4	Simulated Keys (pressed)[{CTRL}{SHIFT}{ESCAPE}]
Mouse Button 5	Simulated Keys (pressed)[{CTRL}{F11}]
Wheel Up	Simulated Keys (pressed)[{LWIN}T]
Wheel Down	Simulated Keys (pressed)[{SHIFT}{LWIN}T]
Tilt Wheel Left	** Same As Default Profile **
Tilt Wheel Right	** Same As Default Profile **

Profile Information

| Description | Taskbar (Running Apps) |
Process	explorer.exe
Window Class	MSTaskListWClass
Parent Class	MSTaskSwWClass

Profile List and Information

Configure applications to suit your individual needs

The list of profiles assigned to various applications and/or windows. From here you can activate/deactivate profiles, rename profiles, create new profiles, copy an existing profile, edit/change the assigned object, import/export profile(s) or remove an unnecessary profile. Profiles can be edited, copied or removed via their respective buttons or from the right-click context menu. If a profile's text is RED, then it is the active profile, in other words it currently has keyboard/mouse focus for sending commands.

The Profile Information box displays how XMBC identifies the selected process and/or window. The information is identical to what is chosen/entered in either the Choose Application or Find Window dialog.
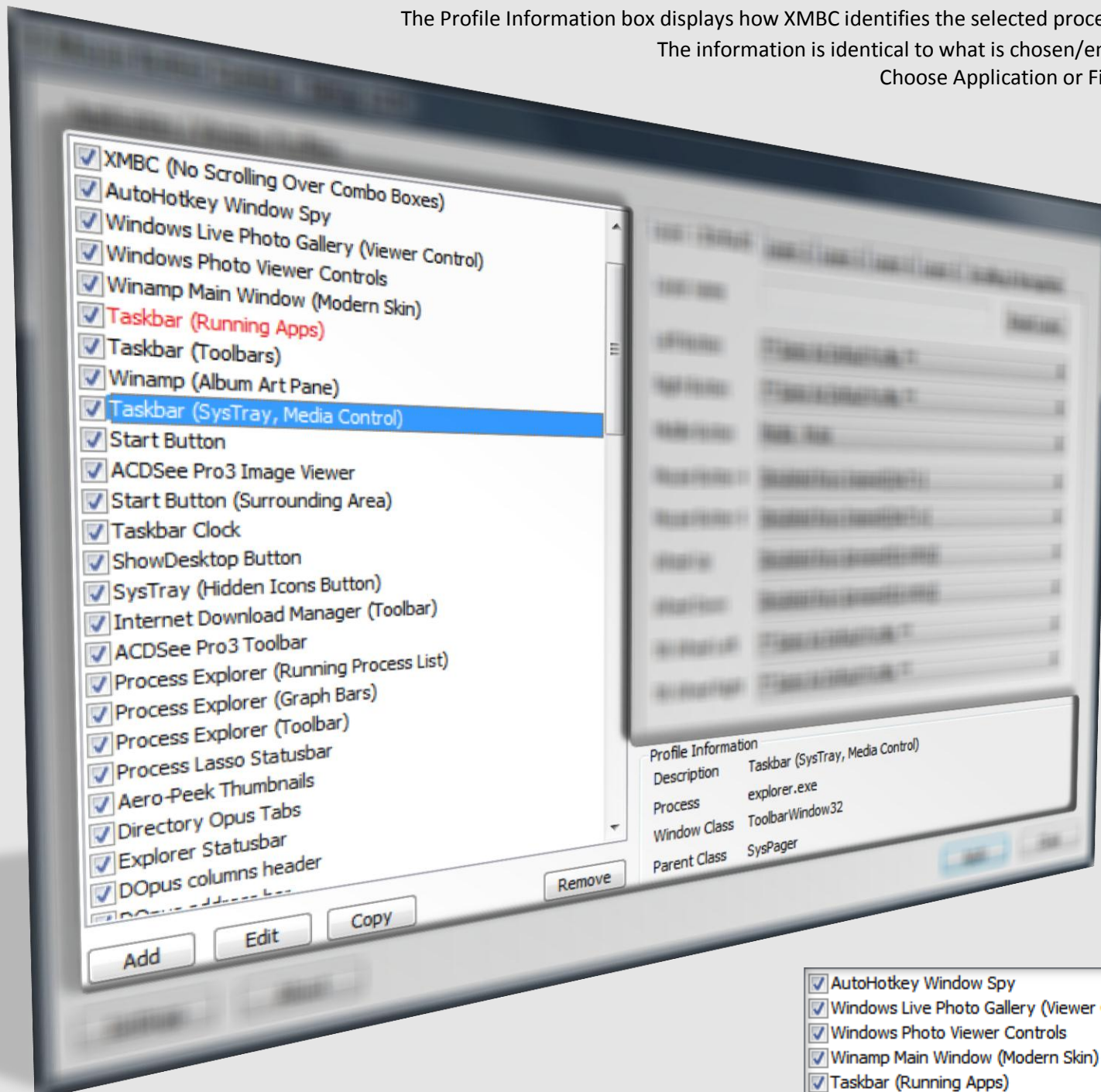
Importing and Exporting Profiles

Accessible from the context menu only.

The X-Mouse Button Control registered file type, **.xmbcs**, is used to save exported profiles.

By default profiles are saved to the current user's %APPDATA% directory under 'Highresolution Enterprises'. Save exported profiles wherever is suitable; the new save location will be remembered.

A batch export is also available for easily backing up the settings of every single profile in a single .xmbcs file.

An exported file may be opened, double-click to import the contained profiles into XMBC. If there is a conflict with a current profile you will be prompted to overwrite the existing one, discard the inserting entry or cancel the entire import process.
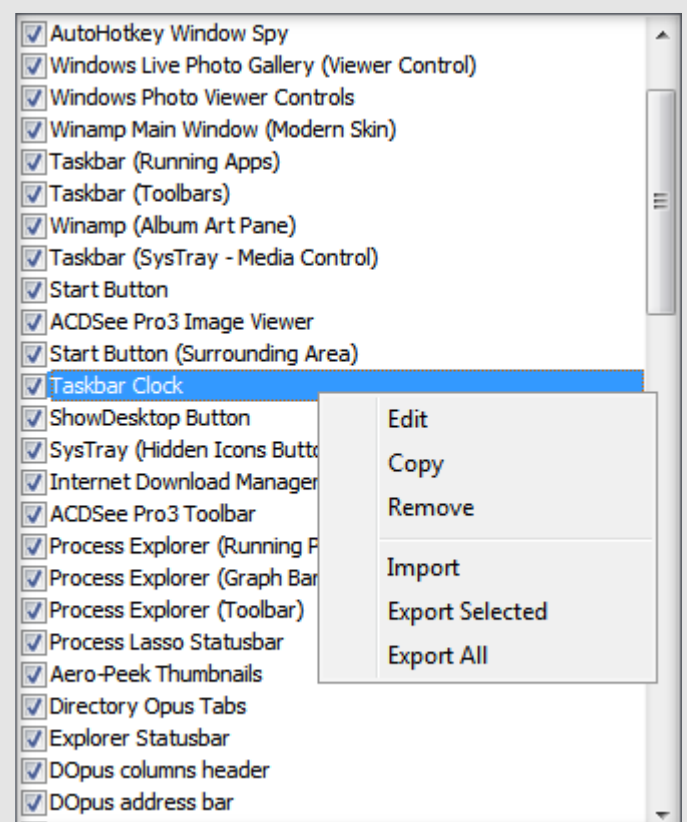
Selecting an Application and/or Window
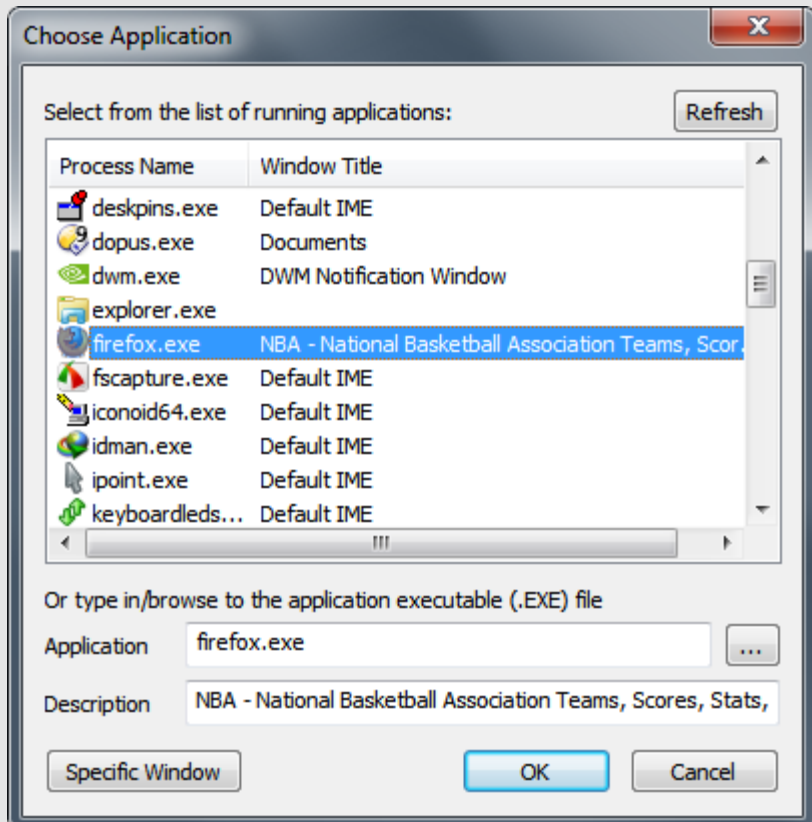
Adding a Process Profile

Pressing the Add or Copy buttons will bring up a dialog box listing all currently running applications.

Choose from the list of running applications, browse for an EXE, manually enter a process name, or opt to use a specific window.

The description field is used to give a profile a custom display name in the profile list.

Adding a Window Specific Profile

After choosing Specific Window from within the running applications dialog, the Find Window dialog will appear allowing for more specific identification.

For target selection press and hold left the left-click button over the window finder icon then drag the target cursor to the desired window and release.

For hover selection mark the radio button then move the cursor over the desired window. Press caps lock to stop hot-tracking so the current window's information can be confirmed in the dialog box.
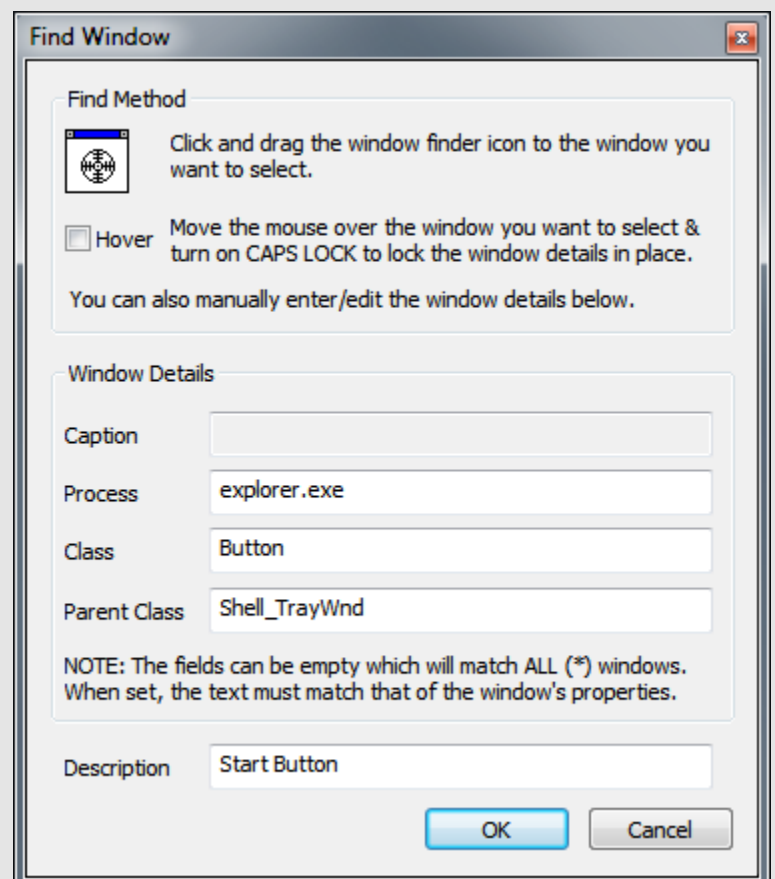
Multi-Layered Button Mapping

Providing 5 layers of button mapping for every profile

Layer 1 (Default)	Layer 2	Layer 3	Layer 4	Layer 5	Scrolling & Navigation

Layer name		Reset Layer
Left Button	** Same As Default Profile ** ▼	
Right Button	** Same As Default Profile ** ▼	
Middle Button	Simulated Keys (released)[{ESCAPE}] ▼	
Mouse Button 4	Simulated Keys (released)[{CTRL}0] ▼	
Mouse Button 5	Simulated Keys (pressed)[{ALT}{ENTER}] ▼	
Wheel Up	Forward ▼	
Wheel Down	Back ▼	
Tilt Wheel Left	** Same As Default Profile ** ▼	
Tilt Wheel Right	** Same As Default Profile ** ▼	

Complete list of **Mapping Commands**, available on each of the 9 controls

You can re-bind up to 9 controls (Left Button, Right Button, Middle/Wheel Button, XButton1/Button4, XButton2/Button5, Wheel Up, Wheel Down, Tilt Wheel Left and Tilt Wheel Right) on each and any of the five layers.

The orange-yellow highlight indicates XMBC is currently receiving a standard Windows message from that control, in other words you are currently manipulating it. If no highlight is seen when manipulating a control, then its current message is not compatible with X-Mouse Button Control.

Any of the five layers can be given a custom name on each and every profile. This name will be displayed in a balloon notification when switching layers (notification is optional).

The reset button in the upper right corner can be used to revert all controls on the current layer to default.

NOTE: Only Microsoft's post-XP operating systems support standard tilt wheel messages. Tilt Wheel Left & Tilt Wheel Right will not be available on Windows XP or previous operating systems.

** No Change (Don't intercept) **
** Same As Default Profile **
ALT-TAB *Vista & Later*
Activate Monitor Power Saving
Activate Screensaver
Back
Browser Favorites
Browser Refresh
Browser Stop
Close (Alt+F4)
Copy (Ctrl+C)
Cut (Ctrl+X)
Disable
Double Click
Double Click Drag
Enter
Escape
Flip 3D *Vista & Later*
Forward
Launch EMail
Layer (Next)
Layer (Previous)
Layer Modifier Revert
Layer 2
Layer 3
Layer 4
Layer 5
Left Click
Lock Workstation
Maximize Window
Media - Last Track
Media - Mute
Media - Next Track
Media - Play/Pause
Media - Stop
Media - Volume Down
Media - Volume Up
Middle Click
Minimize Window
Mouse Wheel Down
Mouse Wheel Tilt Left
Mouse Wheel Tilt Right
Mouse Wheel Up
New
Next Window
Open
Open Control Panel
Open Explorer
Open Explorer at My Computer
Open Explorer at My Documents
Open Explorer at Network Favourites
Open Explorer at specified folder
Open Help
Open RUN Command
Open Search
Open Web Browser
Paste (Ctrl+V)
Previous Window
Print Active Window
Print Screen
Redo (Ctrl+Y)
Restore Window
Right Click
Run Application
Scroll Window Down
Scroll Window Left
Scroll Window Right
Scroll Window Up
Show sidebar *Vista & Later*
Show/Hide Desktop
Simulated Keys (undefined)
Sticky 4th Button
Sticky 5th Button
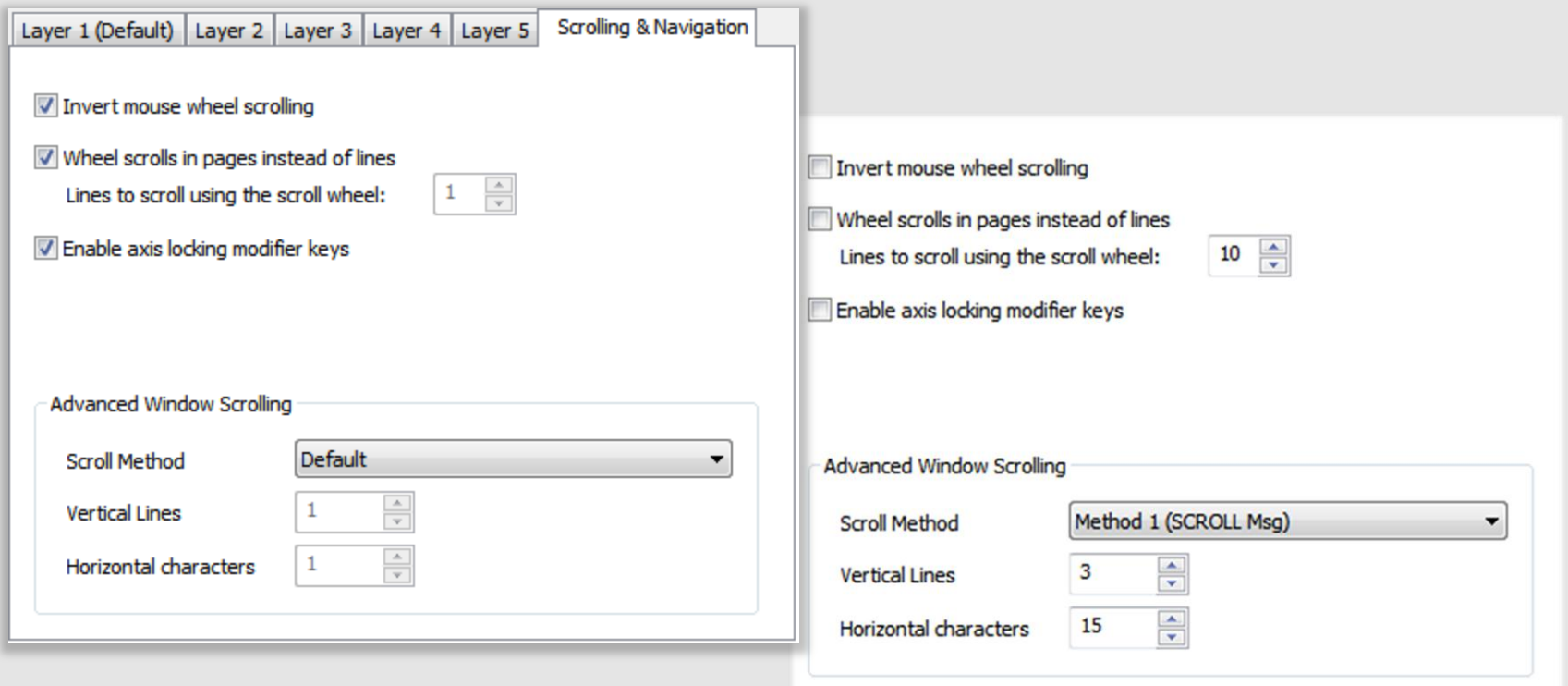Sticky Left Button [Click-Drag]
Sticky Middle Button
Sticky Right Button
Undo (Ctrl+Z)

Scrolling & Navigation Adjustment

The right-most tab, providing advanced pointer & scroll wheel adjustments

POINTER

Currently only a single pointer adjustment is available on a per profile basis.

'Axis Locking'

Axis locking prevents pointer movement along either the X or Y axis.

Each of the axes needs an assigned hotkey for activation.

SCROLL WHEEL

Many scroll wheel enhancements are available. Inverting the vertical scroll directions, page scrolling and adjusting the default number of lines to scroll are just the beginning. Several scroll methods are also available in the Advanced Window Scrolling section (it is possible to use negative scrolling increments, though only Method 4 processes them).

Special Assignments
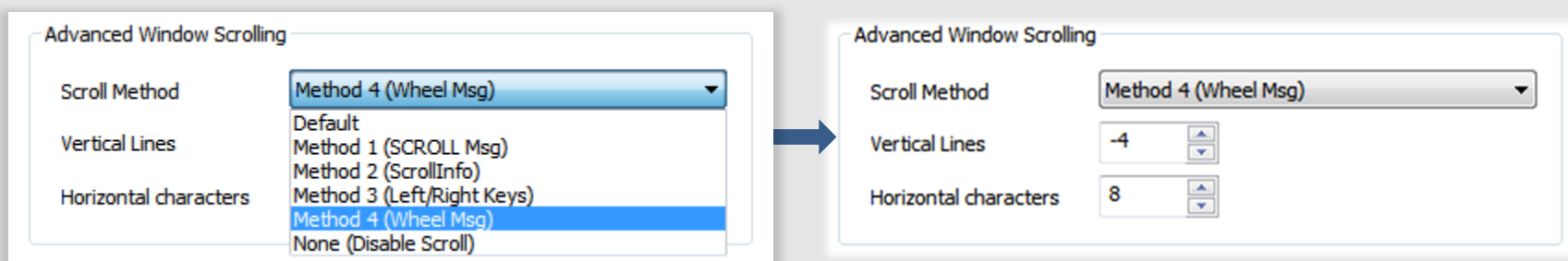
Advanced Scrolling Methods

There are currently 5 methods from which to choose (not including disabled of default). A window or application can be assigned a profile with which a scroll method will be used; a specific window should be chosen if various sections of an application require unique tuning.
To reverse scrolling choose a negative increment.

1. **Scroll Message** – send WM_HSCROLL or WM_VSCROLL directly to the window under the mouse. (works with some windows)
2. **Scroll Info** – the Win32 API to set the scroll position of a window... (rarely works, but gives great results when it does)
3. **Left/Right Keys** – sends left/right simulated keystrokes (only applies to horizontal scrolling)
4. **Wheel Message** – send WM_MOUSEWHEEL or WM_MOUSEHWHEEL message to the window (most recognizable/reliable)
5. **WPF Scroll Message** – a special scroll message, for use with apps built on Windows Presentation Foundation.

Default passes through the original uninterrupted message sent by the mouse' driver.

Disabled blocks the original message and doesn't inject anything other messages.

NOTE: When any of the first three methods fails to register for an application XMBC evokes the 'Default' scrolling method and applies the vertical lines or horizontal characters scrolling increments, 'Method 3' will resort to 'Method 1' for vertical scrolls prior to evoking 'Default'. This way scrolling will not cease if one of these methods isn't recognized by the window.

Simulated Keystroke Assignments

From this dialog you can assign various keystrokes and/or hotkeys through your mouse.

There are 8 methods available for sending your assigned keystroke.

Pressed – sent upon pressing the button

Released – sent upon releasing the button

During – maintained while the button is held
[like holding down keys on the keyboard, minus repetition]

Threaded Press – on press in another thread
[recommended when using {WAIT...} in a key sequence]

Threaded Release – on release in another thread
[recommended when using {WAIT...} in a key sequence]

Repeatedly – continuously sends while held
[like repeatedly pressing keys on the keyboard]

Sticky Repeat – a 'Repeatedly' toggle
[press once to begin repetition, press again to cease]

Sticky Hold – a 'During' toggle
[press once to activate, again to deactivate]

Using a repeat method supports the option to set a custom repeat interval between the collective keys.
{0ms passes through the control panel's settings}

Marking 'only send if profile's process is active' will only send keys when the appropriate window is given focus.
*{on by default, not recommended for sending hotkeys}*
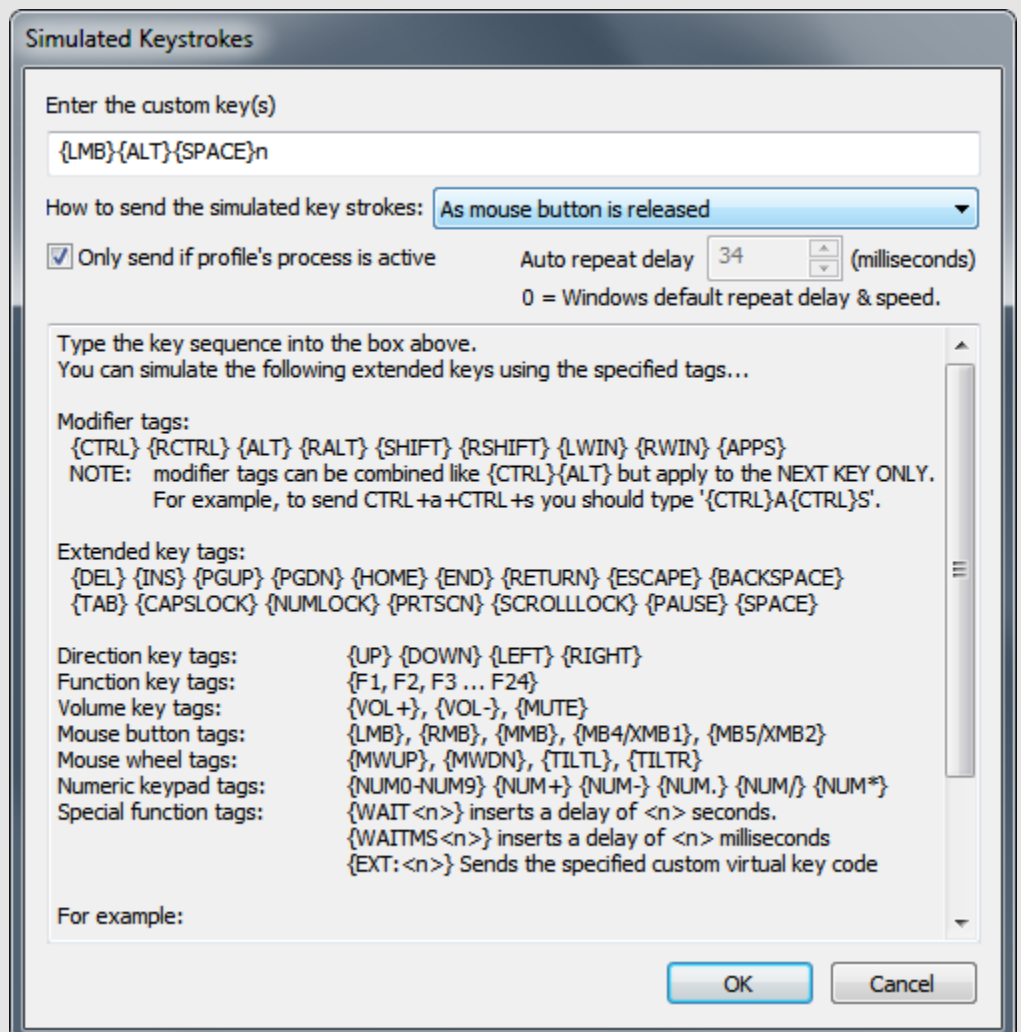
Advanced Settings - General

In order for any of the below settings to take effect, you must OK the changes then press apply in the main dialog.

General Settings

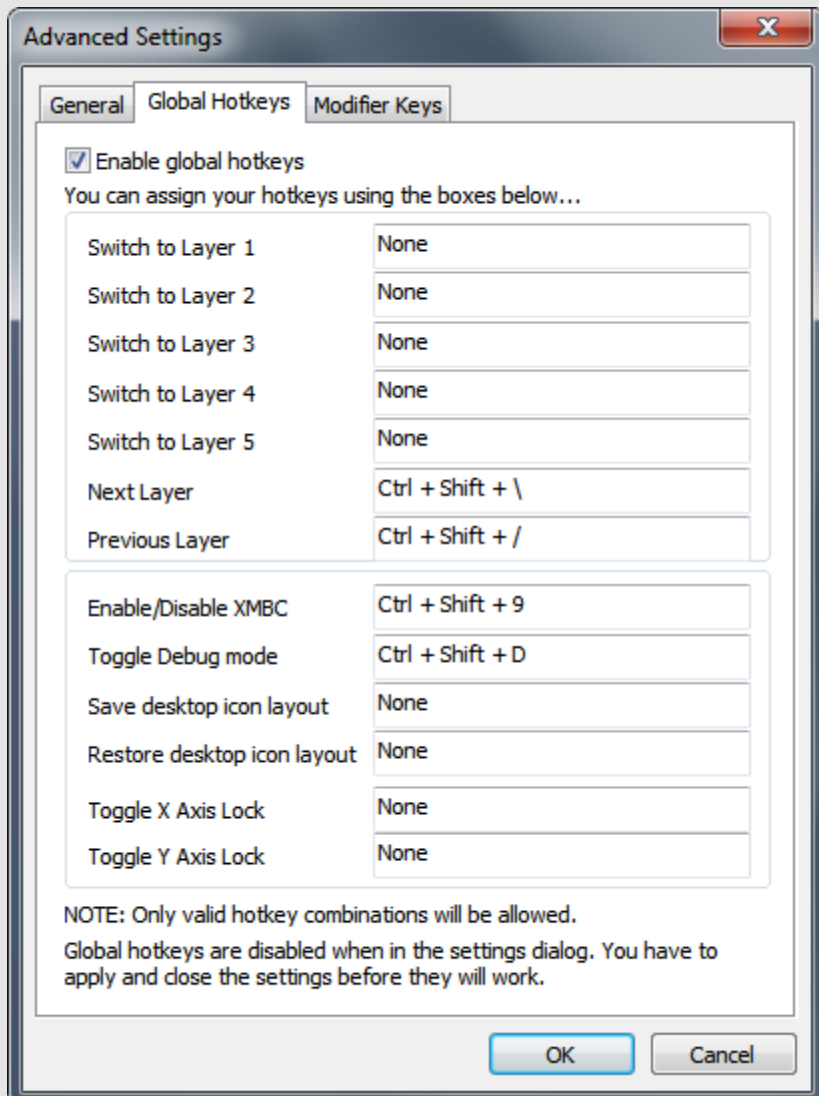These options are applied globally (none are profile specific).

- **Mouse Speed** – adjusts the rate of pointer movement in relation to physical manipulation of the mouse
- **…scroll window under cursor** – sends scrolling messages to the window/control directly beneath the mouse pointer, as opposed to the one with keyboard focus
- **Bypass ALL actions when SCROLL LOCK is ON** – disables all of XMBC's settings when the keyboard's Scroll Lock is activated
- **Bypass 'disabled' actions when SCROLL LOCK is ON** – re-enables all disabled settings when the Scroll Lock key is activated; cannot be used when all actions are bypassed by Scroll Lock activation
- **Process non-client mouse messages** – if disabled XMBC will ignore mouse messages sent to the titlebar area of a window (DISABLING can degrade performance and is NOT RECOMMENDED)
- **Swap 4th and 5th buttons** – swaps the side buttons on most mice (mouse buttons 4/5)
- **Swap 4th and 5th buttons… remote desktop** – swaps the side buttons only while the user is connected to a remote desktop session (affects XMBC on the remote machine)
- **Reset sticky buttons…** – clears any assigned sticky buttons' pushed down state whenever another button is pressed
- **Show layer switch balloon notifications** – toggles balloon tip notification above the notification area when switching layers using a hotkey or button assignment
- **Show tray icon by default** – whether or not the XMBC icon is displayed in the notification area after log on (to display the icon again simply re-run the executable, it won't run multiple processes of the program just instruct the icon to appear in the system tray)
- **Ignore Num Lock state for Simulated Keystrokes** – always treats the number pad on the keyboard as if Num Lock were disabled, when sending simulated keystrokes
- **Fix-up tilt wheel auto-repeat** – this option can be adjusted to clean up unseemly message repetition from tilt wheels
- **Enable profile switching on mouse move** – allows XMBC profiles to be activated when the mouse pointer is over the identified object, as opposed to only when the cursor is activated (requires SLIGHTLY more resources)
- **Check for new version at startup** – a version check will be performed on the first of every month and upon first run
- **Enable debug logging** – activates XMBC's debug mode, it is useful when reporting issues to the developer. The debug log is saved in the current user's %APPDATA% directory under 'Highresolution Enterprises' by default and may be accessed from the system tray. (debug logging is very resource intensive and will hinder mouse responsiveness, as such the setting is not persistent and will be disabled on any subsequent launches)
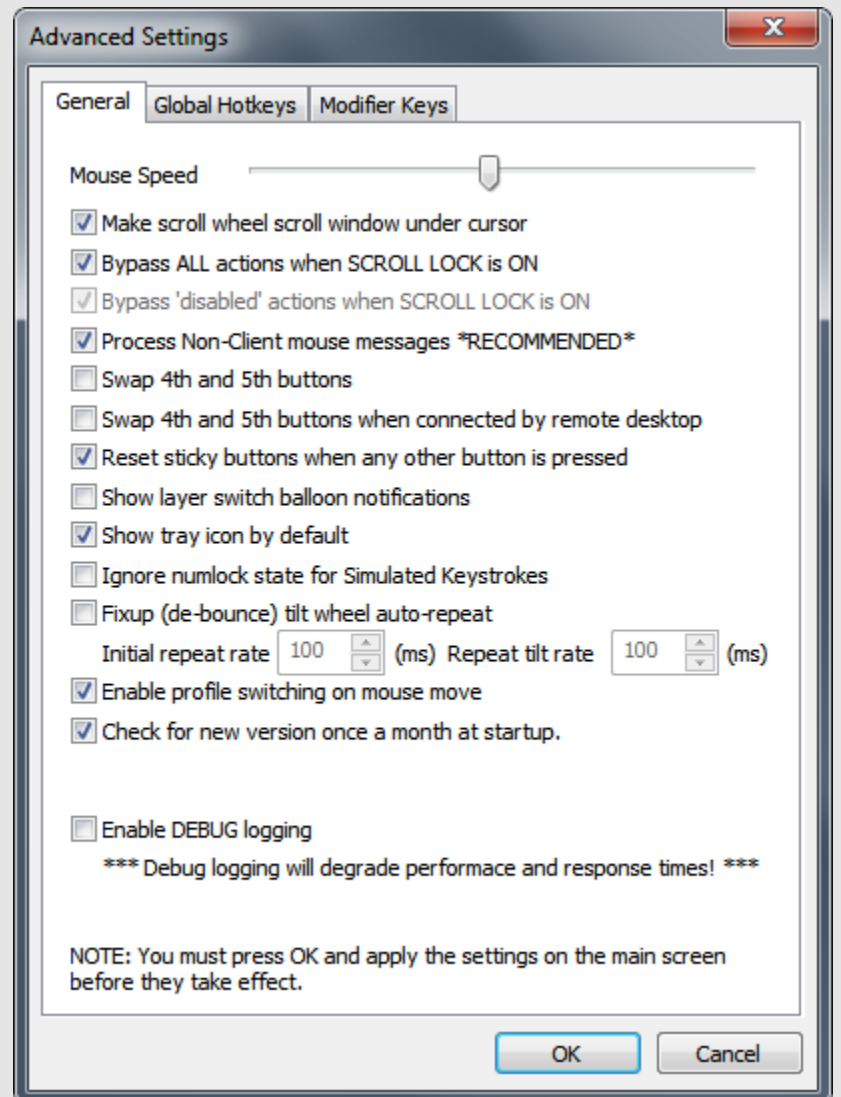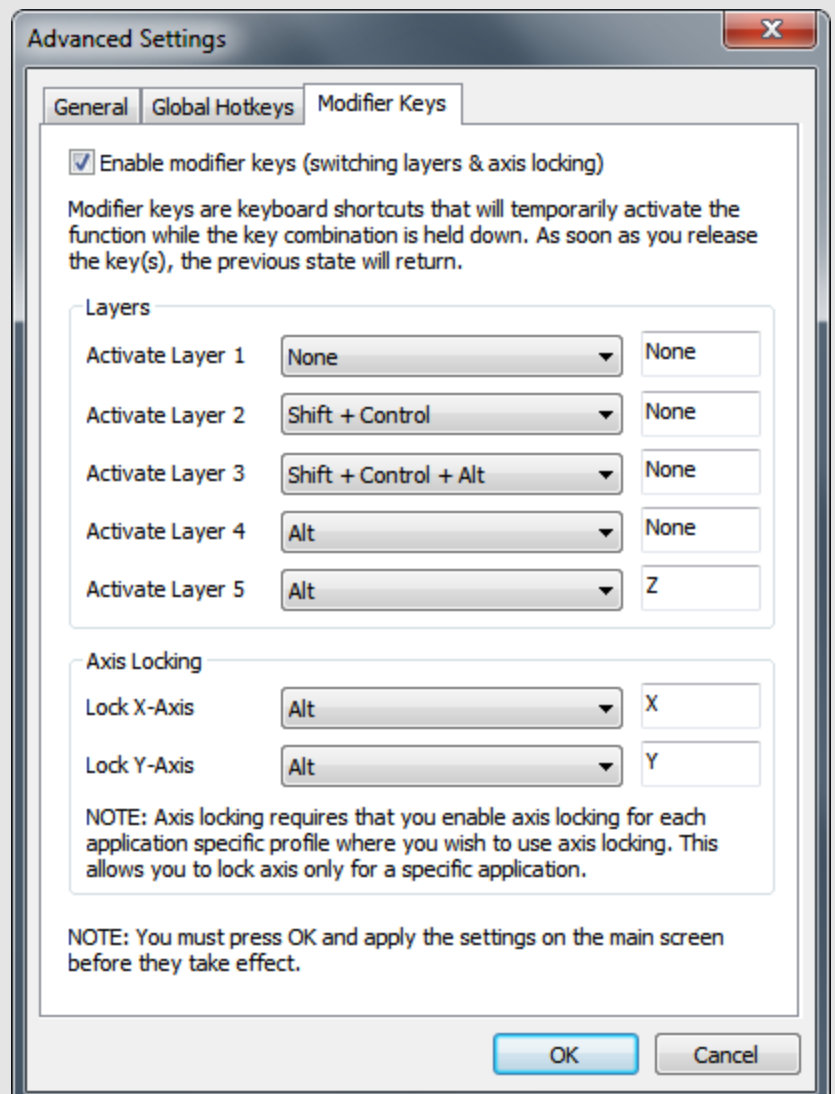
Advanced Settings - Hotkeys

Global Hotkeys

The hotkeys assigned in this tab have a system-wide effect; make sure they aren't already in use somewhere else. These hotkeys will activate their relevant setting; in some cases using the hotkey again will toggle/cycle the setting.

Advanced Settings

General | Global Hotkeys | Modifier Keys

☑ Enable global hotkeys
You can assign your hotkeys using the boxes below...

Switch to Layer 1	None
Switch to Layer 2	None
Switch to Layer 3	None
Switch to Layer 4	None
Switch to Layer 5	None
Next Layer	Ctrl + Shift + \
Previous Layer	Ctrl + Shift + /

Enable/Disable XMBC	Ctrl + Shift + 9
Toggle Debug mode	Ctrl + Shift + D
Save desktop icon layout	None
Restore desktop icon layout	None
Toggle X Axis Lock	None
Toggle Y Axis Lock	None

NOTE: Only valid hotkey combinations will be allowed.
Global hotkeys are disabled when in the settings dialog. You have to apply and close the settings before they will work.

[OK] [Cancel]

Modifier Keys

These hotkeys work as instant toggles. Their relevant settings are only applied while the hotkey is held down. They are system-wide, so make sure there are no conflicts.

Advanced Settings

General | Global Hotkeys | Modifier Keys

☑ Enable modifier keys (switching layers & axis locking)

Modifier keys are keyboard shortcuts that will temporarily activate the function while the key combination is held down. As soon as you release the key(s), the previous state will return.

Layers

Activate Layer 1	None	None
Activate Layer 2	Shift + Control	None
Activate Layer 3	Shift + Control + Alt	None
Activate Layer 4	Alt	None
Activate Layer 5	Alt	Z

Axis Locking

Lock X-Axis	Alt	X
Lock Y-Axis	Alt	Y

NOTE: Axis locking requires that you enable axis locking for each application specific profile where you wish to use axis locking. This allows you to lock axis only for a specific application.

NOTE: You must press OK and apply the settings on the main screen before they take effect.

[OK] [Cancel]

Further Configurations

Using Layered Button Mapping

There are 5 fully customizable layers that may be put to use in XMBC. Several methods are available for activating layers.

Global Hotkeys

Assign hotkeys to the desired layers. Sending this hotkey will perform a rigid layer switch, not reverting back to your previous layer or switching to any other layers until another command to switch layers is received.

Modifier Keys

Assign a modifier key for activating the desired layer. Pressing and holding this hotkey will temporarily activate the layer, reverting to the previously active layer once the hotkey is released.

Button Assignment

Every layer supports mapping buttons to layers other than itself. But assignments work just like modifier keys, activating a layer only while held. Once a button has been mapped to an alternate layer the button on the subsequent layer will be marked as layer revert and cannot perform any other functions on that layer.

Context Menu

Layers can also be manually chosen from the context menu by right-clicking the icon in the notification area.

NOTE: It is not recommended to attempt chaining layer switching through use of the modifier key or button assignment methods. Activating a layer by holding a button/modifier followed by using yet another button/modifier on the resulting layer can & will lead to confusion in certain circumstances.

Locking Axes

In order to lock either the X or Y axis it is first necessary to setup the corresponding hotkey or modifier key and enable axis locking on a per profile basis.

Global Hotkeys

Go to the 'Scrolling & Navigation' tab and mark 'Enable axis locking modifier keys' on the desired profile, then use the assigned global hotkey to enable/disable axis locking for the specified axis.

Modifier Keys

Choose the 'Scrolling & Navigation' tab and mark 'Enable axis locking modifier keys' for the desired profile, now pressing and holding the relevant modifier key will toggle axis locking.

NOTE: Axis Locking works by preventing any movement on the chosen axis. So locking the X-Axis will PREVENT the cursor from moving along the X-Axis, not RESTRICT cursor movement to only along the X-Axis.

Changing the Tray Icon

Use your own icons by placing ICO files in the same folder as the main executable (XMouseButtonControl.exe). A unique icon can be used to represent each of the 5 layers and the disabled state. Create or download icon files using 16x16 and/or 32x32 (auto-resized) dimensions. The following naming pattern is necessary in order for the .ico files to be accepted by XMBC. Exit and re-launch the program to load the icons.

Layer1.ico (the default icon), Layer2.ico, Layer3.ico, Layer4.ico, Layer5.ico, and Disabled.ico

---