

BELKIN.
Home Base
User Manual

8820-00256 F5L049



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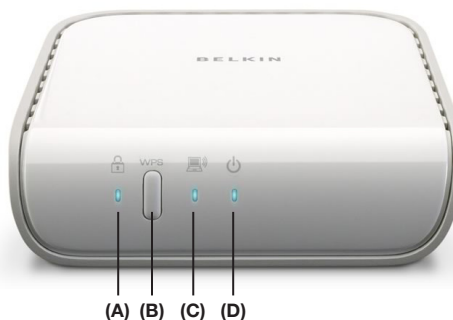
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INTRODUCTION

Thank you for purchasing the Belkin Home Base. By following these simple setup instructions, your Belkin Home Base will allow you to share your USB printer and hard drives, with any computer or laptop on your home network. The Control Center software offers a convenient central location to configure the Home Base and the USB devices you attach to it.

Home Base Capabilities

- Share and control printers and scanners among all the networked computers in your home
- Share external drives with all the networked computers in your home
- Back up critical and precious content from all your networked computers to an external drive for safekeeping
- Schedule automatic backups to regularly archive new content and changes
- Automatically share pictures on Flickr® and Picasa®
- Set up an external drive to act as a DLNA server for your media content
- Media files served through Home Base's drive can be accessed directly from Xbox 360™, PlayStation® 3, and other DLNA client devices



- (A) Wireless Security** – Indicates wireless security is enabled when lit
- (B) WPS Connect Button** – Automatically establishes secure wireless connection to routers with similar WPS connect button feature
- (C) Wireless Connection** – Indicates wireless LAN connection when lit
- (D) Power** – On/Off

Benefits of Home Base

- **Share** – Easily pass files back and forth across the network. Share music, photos, video, documents, or any content you want by placing it on the external drive attached to Home Base.
- **Peace of Mind** – All your critical content can be backed up to the drive(s) attached to Home Base. All your family photos and critical documents will be safe from computer crashes.
- **Mobility** – Print and scan from anywhere in the home. You are no longer tethered to the computer, nor do you need to email print jobs to a computer physically connected to the printer.
- **Freedom** – Hide your printers, scanners, and external drives out of sight.
- **Flexibility** – Any USB peripheral can be shared among all your networked computers simply by attaching it to Home Base.

Package Contents

- Belkin Home Base
- Quick Installation Guide
- Belkin Setup Assistant Software CD
- RJ45 Ethernet Networking Cable
- Power Supply
- User Manual on the Setup Assistant CD

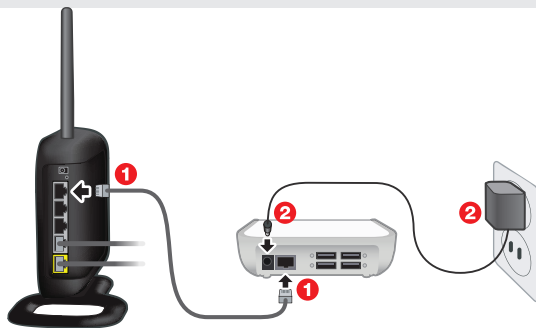
System Requirements

- Windows®, XP, or Vista® 32- or 64-bit
- Mac OS® X v10.4 or v10.5
- Minimum 1GHz processor and 128MB RAM

GETTING STARTED

1 Connect Home Base to your network

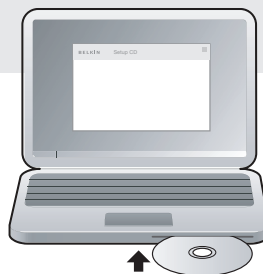
First, connect Home Base to your router with a network cable. Next, plug the included power supply into Home Base and into a power outlet.



If you'd like to use Home Base wirelessly, plug it into your router for now. The setup software will help you make Home Base operate on your wireless network. You can also use WPS to wirelessly set up Home Base. See the help file on the CD for details.

2 Run the setup software

Run the setup software to make Home Base a member of your network. Insert the CD, and the setup software will run*. Choose "Set Up Home Base". If you don't already have it installed, the setup software will also install Control Center on your machine.



3 Install Control Center on other computers

You will need to install Control Center on each additional computer that will use Home Base. Insert the CD and the setup software will run*. Choose “Install Control Center”.



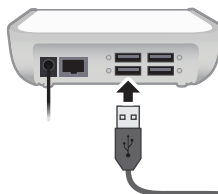
*If the setup software does not run automatically, browse the CD and run “Setup”.



4 Connect USB devices

Once Home Base is a member of your network, you're ready to plug in printers, hard drives, and other USB devices to share among your computers. Simply plug each device into an open USB port on the back of Home Base.

Note: If you plug a printer into Home Base, each computer will ask you to install the printer's driver if it hasn't been done already. You'll only have to do this once.



You can manage these devices via the Control Center, the icon of which appears in your system tray (Windows®) or menu bar (Mac OS® X). It is also accessible via the Start menu (Windows) or Applications folder (Mac OS X).

WIRELESS SETUP

There are three ways to attach your Home Base to your wireless network:

- Wired Setup of Wireless Mode
- WPS Push Button Configuration
- WPS PIN Configuration

Wired Setup of Wireless Mode

Note: If Home Base is powered on while plugged into a router, it will operate as a wired device. To enable Wireless mode, follow instructions below.

The setup software will help you make Home Base operate as a member of your wireless network.

1. Start by connecting your Home Base to your router. (You'll unplug it later.)
2. Connect the AC adapter.
3. Run the setup software and follow the software's instructions to set up the Home Base.
4. When offered wireless setup, select a wireless network.
5. The setup software will tell Home Base what network you chose. Follow the software's instructions to unplug your Home Base from the router and turn it off and on.
6. Your Home Base will then operate as a member of your wireless network.

WPS Push Button Configuration

If your router supports WPS, the WPS Push Button Configuration (PBC) is the quickest way to get Home Base onto your wireless network.

1. Make sure Home Base is NOT plugged into your router.
2. Connect the AC adapter.
3. Push the WPS button on your router. (Refer to your router's instruction manual.)
4. Push and hold the WPS button on Home Base. Release the WPS button when the blue security LED on the Home Base and the LED start blinking. Once the LED starts blinking in longer intervals for approximately three seconds, release the button.
5. Home Base and your router will negotiate a connection.

Status of WPS Wireless Security:

Off	Wireless security is off
Blinking Blue	WPS handshaking in process
Solid Blue	Wireless security is on

If a connection is established, Home Base's security LED will come on in solid blue.

If a connection is not established after more than two minutes, the security LED will flash quickly and continuously for 10 seconds, then stop, and you'll need to try again.

If Home Base couldn't determine to which router to connect, the security LED will flash in bursts of five for 10 seconds, then stop, and you'll need to try again.

WPS PIN Configuration

If your router does not support the WPS Push Button Configuration, the alternative is to apply the WPS security using the PIN Configuration. Locate the 8-digit PIN code on the bottom of Home Base and enter this pin into your router to manually initiate a WPS connection.

1. Read the PIN code from the bottom of Home Base.
2. Make sure Home Base is NOT plugged into your router.
3. Connect the AC adapter.
4. Push and hold the WPS button on Home Base. Release the WPS button when the security LED on Home Base starts blinking short blinks after about 10 seconds.
5. Enter the PIN code into your router's interface. (Refer to your router's instruction manual.)
6. Home Base and your router will negotiate a connection.

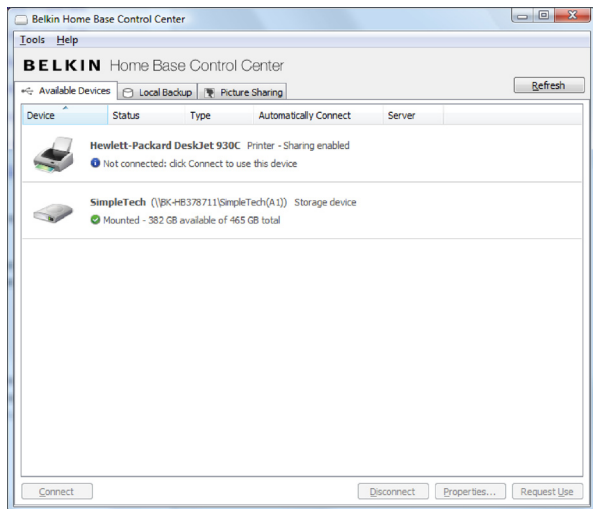
If a connection is established, Home Base's security LED will come on in solid blue.

If a connection is not established after more than two minutes, the security LED will flash quickly and continuously for 10 seconds, then stop, and you'll need to try again.

For more information on wireless setup, see the "Troubleshooting" and "FAQs" sections in this manual.

AVAILABLE DEVICES LIST

The “Available Devices” tab displays a list of USB devices connected to Home Base and allows you to select devices and specify connection settings for them. For more information, see the “Device Properties” section below.



The “Available Devices” tab displays a list of USB devices connected to Home Base and allows you to select devices and specify connection settings for them. For more information, see the “Device Properties” section on the next page.

To connect to a USB device, select it and click “Connect”. **Alternatively, you can double-click on a device to connect to it. If you double-click on a disk drive, you can access the contents of the disk drive.**

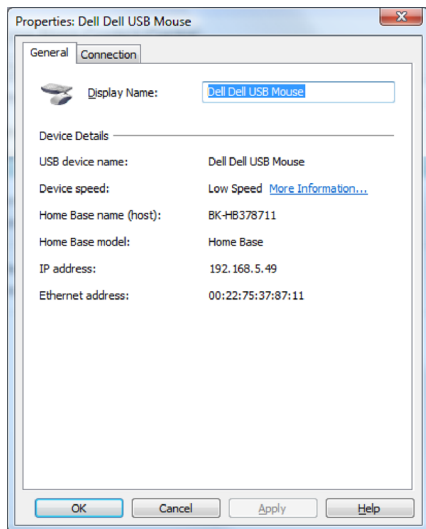
By default, disks attached to Home Base are shared with all computers on the network. A disk can be unmounted safely by selecting it and clicking “Disconnect”. A disk that is not mounted can be mounted again by unplugging and plugging its USB cable back into Home Base.

If someone is using a device you’d like to use, select the device and click “Request Use”. A message will appear on the user’s computer notifying him or her that you wish to use this device. They can elect to make the device available to you, or not.

DEVICE PROPERTIES

To access the properties sheet for an individual device, select the device in Control Center and click “Properties”. The properties sheet allows you to specify general settings such as the name that the device will appear as in the Control Center, whether the device should automatically connect with a computer via the Home Base as soon as the computer starts, and more.

General Properties



The “General” tab of the “Device Properties” screen enables you to change the name the device appears as in the Control Center and displays various reference information about the device.

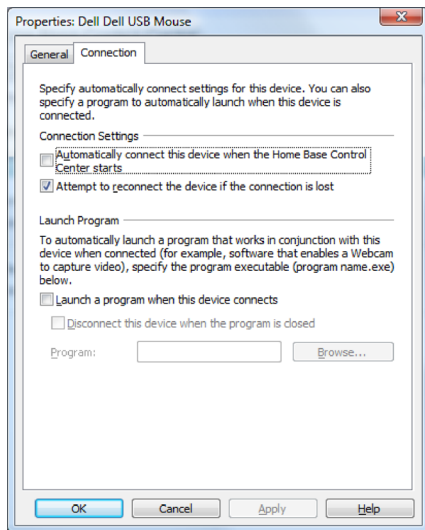
In the “Display Name” field, enter the name of the device as you want it to appear in the Control Center. The default name is gathered by the Control Center from the device itself. This default name will always appear as the USB device name, even if you change the “Display Name”.

“Device speed” is shown as reported by the particular device. Actual performance is also affected by other factors such as your network configuration.

1. **Hi-Speed:** USB products that carry the “Hi-Speed USB” logo and support a speed of 480Mbps.
2. **Full Speed:** USB products that carry the basic “Certified USB” logo and support a speed of up to 12Mbps.
3. **Low Speed:** Supports up to 1.5Mbps.

The “General” tab also contains reference information about the device.

Device Connection Properties



The "Connection" tab of the "Device Properties" screen enables you to specify if the device should connect automatically to this computer when the computer is started, and if any software should start automatically when the device connects. The information in this topic applies to all devices except printers and disks that are shared via NAS mode. To learn about connection properties for printers, see the "Printer Connection Properties" section.

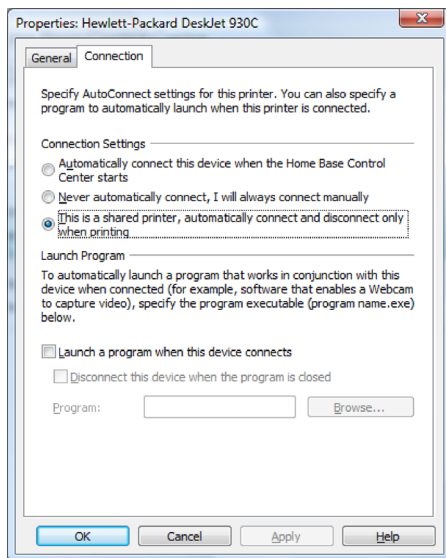
Check the "Automatically connect this device when the Home Base Control Center starts" check box if you want this computer to automatically connect to this device each time Control Center starts. If you mark this check box along with the box that specifies if the Control Center should start, the device will automatically connect each time you start the computer.

Connections to devices may occasionally be lost due to network failures or other factors. If you want the Control Center to automatically reconnect with the device should this occur, check "Attempt to reconnect the device if the connection is lost". The Control Center will try to reconnect with the device until the connection is reestablished or the computer is shut down.

Use the "Launch Program" field to specify settings for any software associated with this device. For example, a webcam probably has software that captures video. By checking "Launch a program when this device connects", you can specify that the software starts automatically when the webcam is available. You can also check "Disconnect device when the program is closed" if you want to free up the device for use by other computers when you close the software.

In the "Program" field, browse to find the software you want to associate with the device. You can also enter the path to the program directly into the field. Once your settings are saved, only the name of the program appears in the "Program" field.

Printer Connection Properties



When a printer is selected, the “Connection” tab of the “Device Properties” screen offers additional functionality specific to printers. In particular, you can select one of three options for automatically connecting the device.

If the printer is being shared among multiple computers, we recommend selecting “This is a shared printer, automatically connect and disconnect only when printing”. With this option, the printer is automatically connected when a print job is sent to it, then is disconnected as soon as the job completes so the printer is then available for other computers.

Check “Automatically connect this device when the Home Base Control Center starts” if you want this computer to automatically connect to this printer each time the computer starts, preventing other users from connecting to the printer automatically.

You can force users to manually connect to the printer with the “Never automatically connect, I will always connect manually” option.

The “Printer” field is enabled if you select one of the automatic connection options. From the drop-down list, select the printer driver associated with this printer.

Connections to devices may occasionally be lost due to network failures or other factors. If you want the Control Center to automatically reconnect with the device should this occur, check “Attempt to reconnect the device if a connection is lost”. The Control Center will try to reconnect with the device until the connection is reestablished or the computer is shut down.

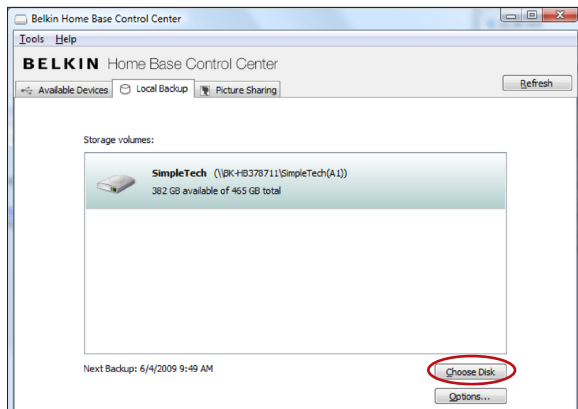
Use the “Program” field to specify settings for any software associated with this printer. You can also check “Disconnect this device when the program is closed” if you want to free up the device for use by other computers when you close the software.

In the “Program” field, browse to find the software you want to associate with the printer. You can also enter the path to the software directly into the field. Once your settings are saved, only the name of the program appears in the “Program” field.

LOCAL BACKUP

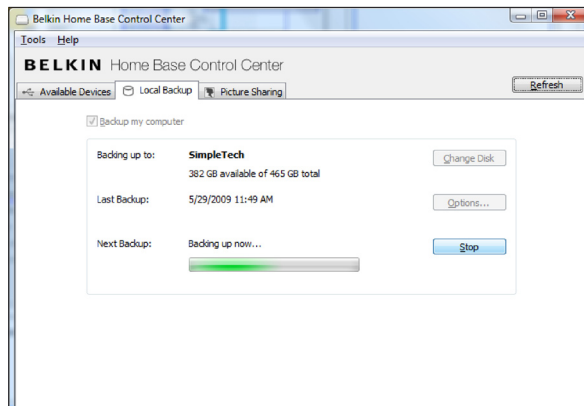
The Belkin Home Base Control Center Local Backup tab enables you to easily back up the files from your computer to USB drives connected to Home Base.

To set up a backup from your computer, select the volume to which you want to back up and click “Choose Disk”.



The backup job screen will appear. The name of the disk, and its free space, will be shown, as well as the date and time of the next backup.

If you want to change the disk volume used for backup, click “Change Disk”.



Your backup will begin when indicated by “Next Backup”, or you can start backing up immediately by clicking “Backup Now”. The status of your backup will be shown via a progress bar. The first backup can take a while as it copies all of the files on your computer. Once the initial backup is complete, the Control Center will monitor your computer and only back up new and changed files.

LOCAL BACKUP

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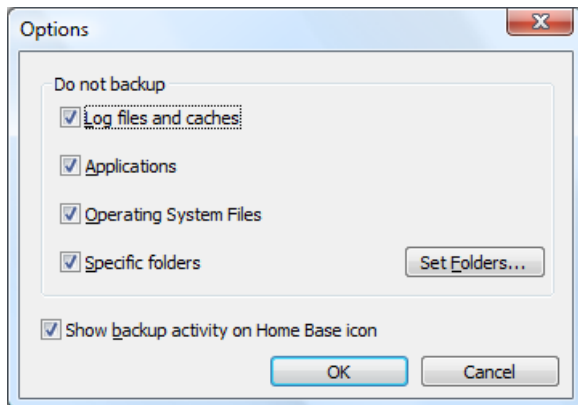
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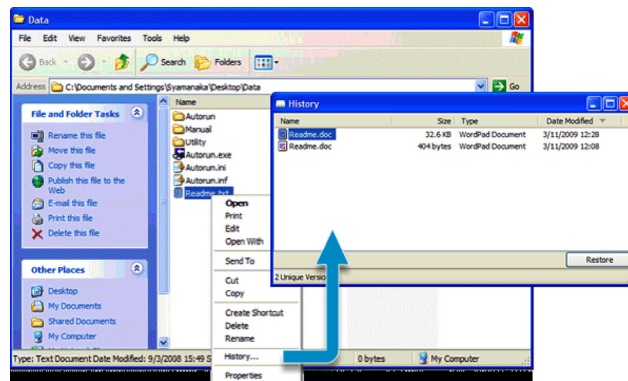
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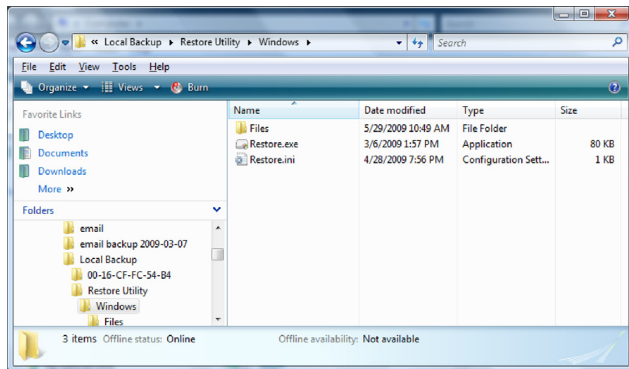
Click "Options" to exclude files from the backup. This can help your backup happen faster. You can choose to exclude "Log files and caches", "Operating system files", and "Applications", and elect to exclude one or more "Specific folders". To exclude specific folders, click "Set Folders" and choose which ones you don't need to back up.



To restore files back to your computer, you can right-click on a file or folder you wish to restore and choose "History" to bring up the history browser, which will list all versions of the file/folder existing in the backup. Select an item from the list and click the "Restore" button, which will allow you to choose a restore destination. You may also drag an item from the history browser to a location of your choice. You can also browse to the "Local Backup" folder on the backup disk to find a version of the file.

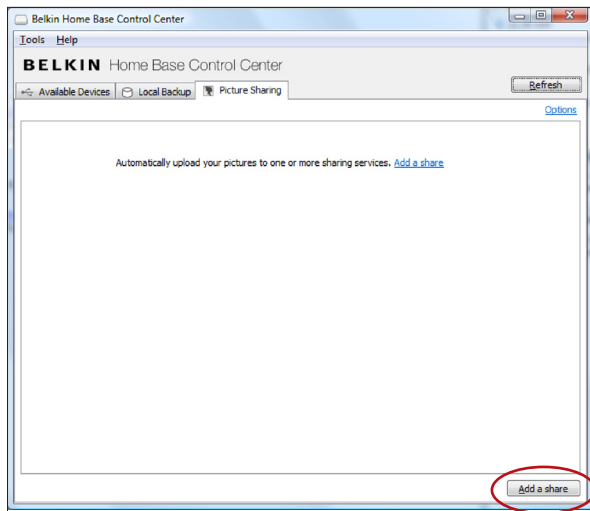
LOCAL BACKUP

If you want to perform a full restore of your computer, launch the “Restore Utility” found in the “Local Backup” folder of the drive that received the backup.



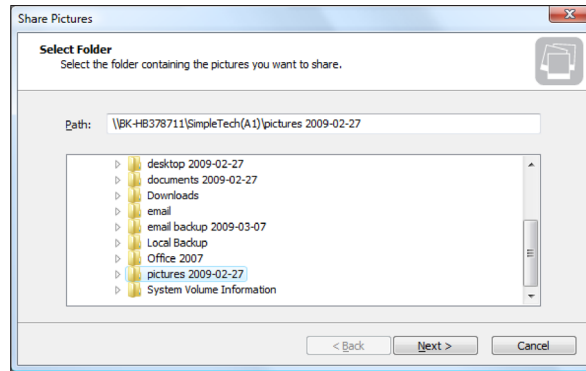
PICTURE SHARING

The “Picture Sharing” tab enables you to automatically upload pictures from USB disks connected to the Home Base to picture-sharing sites like Flickr and Picasa.



To enable this feature, click “Add a share” and select a folder from the disk(s) connected to the Home Base. Home Base will monitor this folder for pictures.

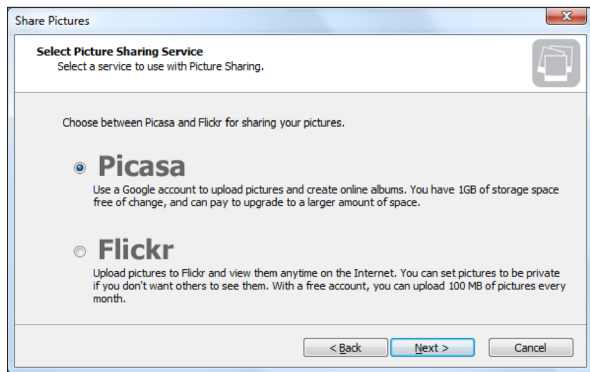
If you want to change the time that Home Base performs the picture uploads to the online services, click “Options”.



PICTURE SHARING

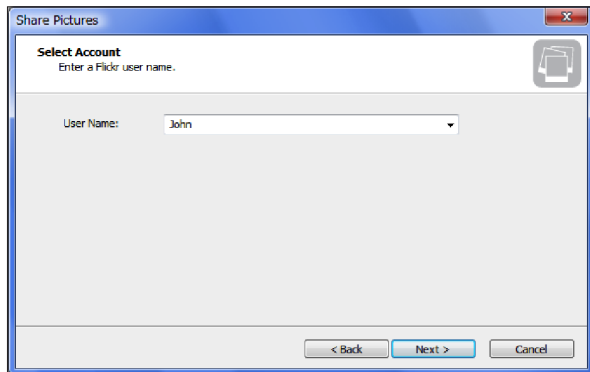
Now select the photo-sharing site you want to use and follow the prompts. If you don't have a Flickr or Picasa account, you will need to sign up for one, which you can do for free.

The "Picture Sharing" configuration wizard will ask you for your online photo-sharing account information; you will need to authorize your Home Base product so it can access your account and automatically upload your pictures. The wizard will also ask you how often you want to check for pictures to upload them.

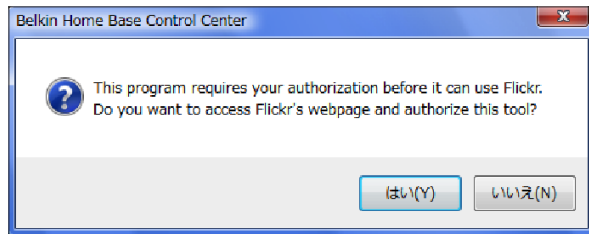


Flickr Account Selection

A Flickr account is selected here. Next to “User Name”, the user names stored in Home Base are displayed in a combo box.



If a new user name is entered, Flickr tool authorization is necessary. In this case, clicking “Next” will bring up the following message.



PICTURE SHARING

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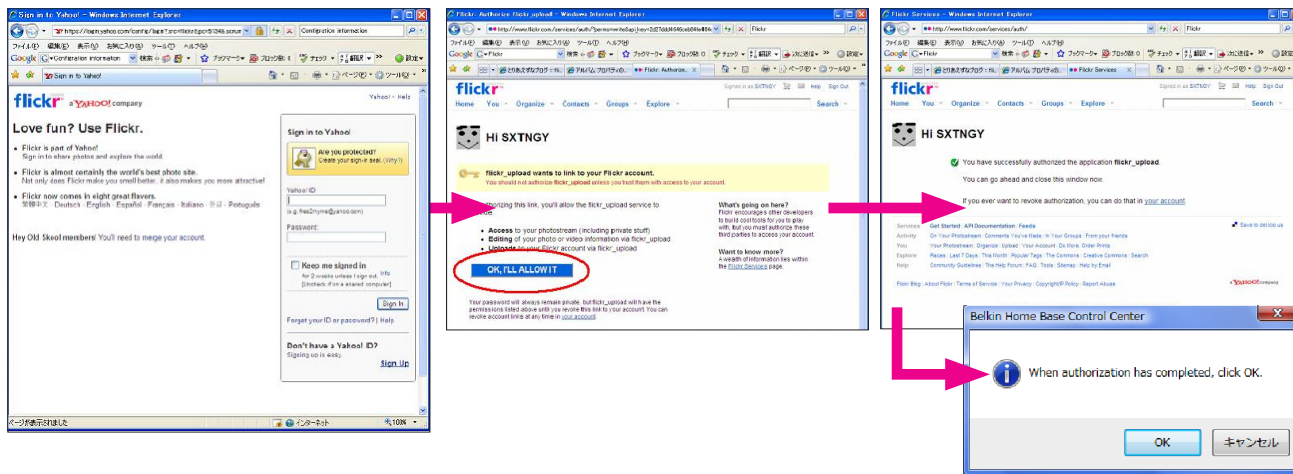
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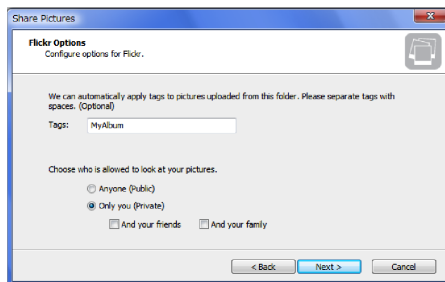
If "OK" is clicked, the default web browser will launch and the Flickr authorization page will be displayed. Control Center will display a message telling the user to dismiss it when authorization is complete.



After authorization is complete, the user clicks the message box's "OK" button. The new user account information is stored to Home Base and the wizard continues.

Flickr Optional Settings

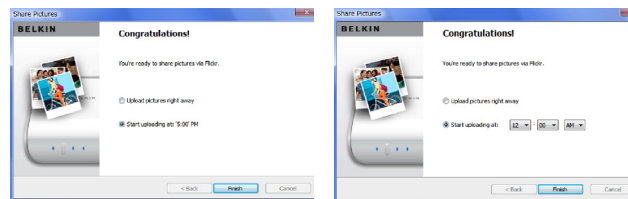
Optional settings are configured here.



Item	Description	
Tags	Sets tag information. Up to 64 tags can be entered, with each tag separated by a space.	
Anyone (Public)	All users can view the pictures.	
Only You (Private)	And Your Friends	Friends can also view the pictures.
	And Your Family	Family members can also view the pictures.

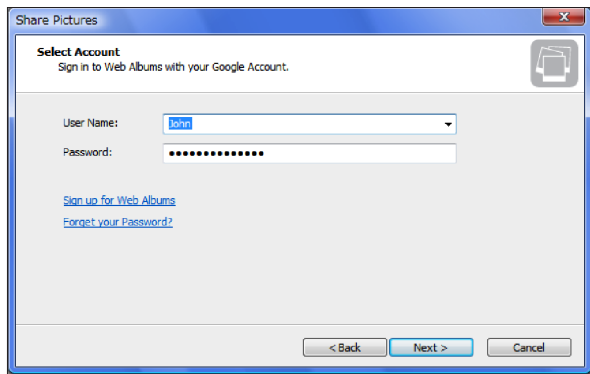
Begin Upload

After adding a picture job, the user will choose whether to perform the upload immediately, or wait until the configured time. When “Finish” is clicked, the upload will be performed according to the user’s selection. If an upload time was not already configured for Home Base, it can be configured before clicking “Finish” (see bottom right image). If a time is configured for one folder, it will be used for all other folders as well.



Picasa Account Selection

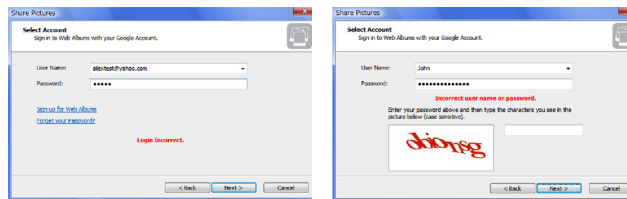
A Picasa account is selected here. Next to “User Name”, the user names stored in Home Base are displayed in a combo box. If a new user name is entered, Home Base will automatically store the account information.



If “Sign up for Web Albums” is clicked, the sign-up page for Picasa Web Albums will open in a web browser. The user can create a Google Account there if he or she does not already have one.

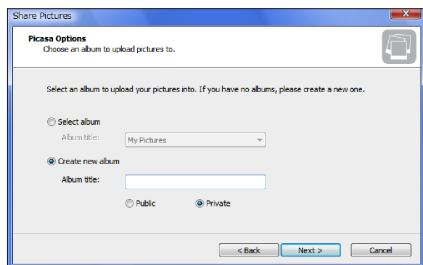
A login error will be displayed if user authentication failed. If the user forgot his or her password, he or she can click the “Forgot your Password?” link to open the Google Account password confirmation page in a web browser.

If user authentication fails several times, the user may have to enter a CAPTCHA (see bottom right image).



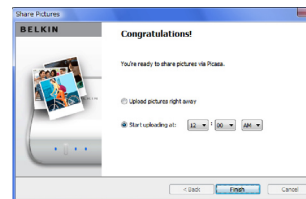
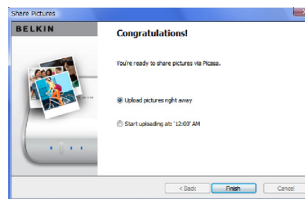
Album Configuration

The album to upload pictures is selected here. An existing album can be selected, or a new album can be created. If there are no albums for the Picasa account, a new album must be created, and “Select album” cannot be chosen.



Begin Upload

After adding a picture folder, the user will choose whether to perform the upload immediately, or wait until the configured time. When “Finish” is clicked, the upload will be performed according to the user’s selection. If an upload time was not already configured for Home Base, it can be configured before clicking “Finish” (see bottom right image). If a time is configured for one folder, it will be used for all other folders as well.



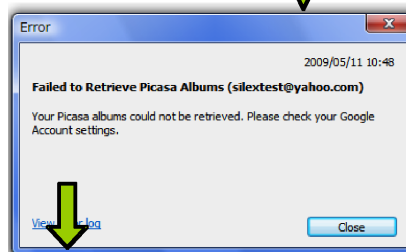
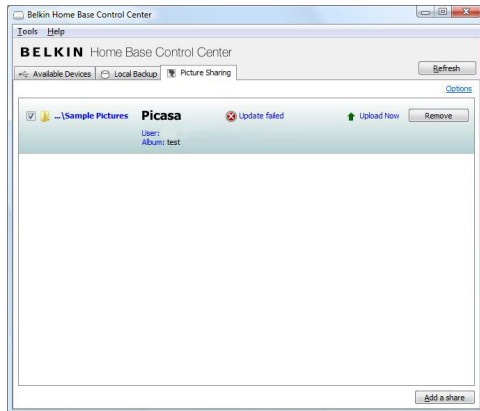
Item	Description	
Select Album	Choose album to upload pictures to.	
Create new Album	Album Title	Title of the new album.
	Public	Allow all users to view the pictures in this album.
	Private	Allow only users with authority to view the pictures.

Error Notification

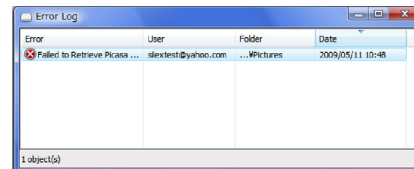
If an error occurs while Picture Sharing is in progress, the user will be notified via an icon (or balloon help) in the task tray on Windows, or an icon on the system status bar on Mac OS X.



When the icon is clicked, the Picture Sharing screen in Control Center will open.



If “View Error Log” is clicked, a log of errors for the selected folder will be displayed.



In the folder list, an error status message will be displayed for items where an error occurred. When the message is clicked, the Error Information Dialog will pop up.

The Error Information Dialog displays detailed information about the error. Also, the user can configure whether he or she wants newer pictures uploaded first, or older pictures uploaded first.

PICTURE SHARING

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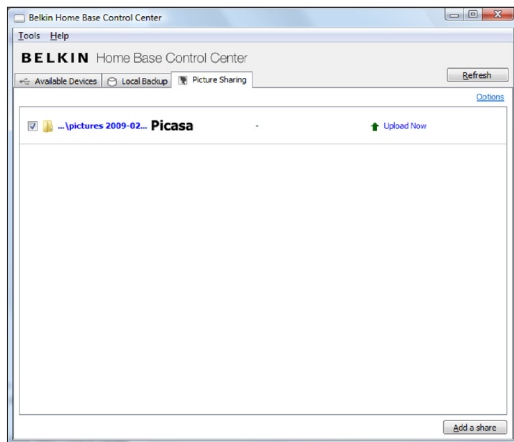
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Once you have configured Home Base to upload pictures to a photo-sharing site, a list of folders and their associated sites will be shown on the “Picture Sharing” tab. Each list item will show its status and the time of last upload. If you want to share additional folders, click “Add a share”.



If you want to change the time that Home Base performs the picture uploads to the online services, click “Options”.

To disable a share, uncheck its check box. To delete a sharing job permanently, click “Remove”.

To access your pictures, log in to your account at www.flickr.com or www.picasa.com to view your pictures online.

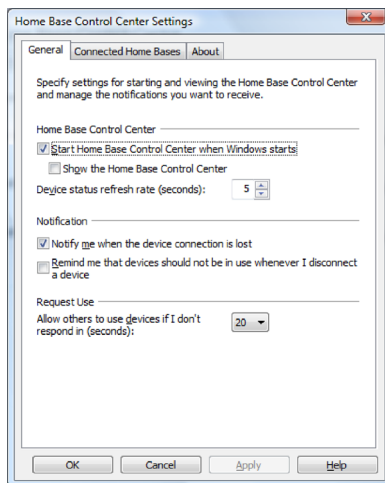
CONTROL CENTER OPTIONS

You can specify general settings such as whether you want the Control Center software to start when you start your computer, how you want to update Control Center software, and more.

To access “Control Center Settings” properties, click “Tools > General” or “Tools > Connected Home Bases” in Control Center.

General Settings

On the “General” tab, you can specify when you want Control Center to start and the types of notifications you want to see.



If you check “Start Home Base Control Center when Windows Starts”, any devices to which you choose to automatically connect will be ready for use when you start your computer. For more information, see the “Device Properties” section.

The “Show the Home Base Control Center” check box makes Control Center appear each time you start the computer.

Under “Notification” you can specify which notifications you want to see. Mark check boxes to:

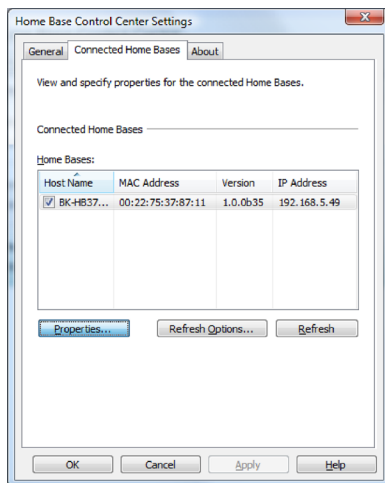
1. **Notify me when the device connection is lost** – to inform you when the connection to a USB device is lost. This is enabled by default.
2. **Remind me that devices should not be in use whenever I disconnect a device** – to remind you that you should ensure a device is not in use before disconnecting. For example, disconnecting a storage device while files are open could result in data loss. This is disabled by default.

You may also specify how often you want the device list to be refreshed. This rate determines how often Control Center updates the status of attached devices.

Connected Home Bases

On the “Connected Home Bases” tab you can view all Home Bases available on your network and set properties for them.

All connected Home Bases are listed in the box. Select one and click “Properties” to view its settings. This will open the web browser configuration of Home Base. It consists of status, configuration, maintenance, and help pages.



Network administrators who are administering a network containing subnetworks can click “Refresh options” to specify broadcast IP addresses to be used when the Control Center searches the network for Home Base.

For more information on Home Base web browser interface, you can click on “Help” on any of the web pages.

MEDIA SERVER

Overview

Home Base can distribute pictures, movies, and music (called media files) to UPnP media players by using UPnP.

Function Features

This Media Server distributes media files in USB storage to media players. It makes virtual directories, “Image,” “Music,” and “Movie.” These virtual directories consist of sub-directories and each kind of media file.

Supported Media Formats

This Media Server supports the following file types:

Media Type	Format (File Extension)
Image	JPEG (.jpg) PNG (.png)
Movie	MPEG-1 (.mpg) MPEG-2 (.mpg .mpeg) MPEG-4 (.m4v .m4p .mp4)
Music	AC3 (.ac3) LPCM (.wav) MP3 (.mp3) MPEG-4 (.m4a) WMA (.wma)

In addition, the following files may be showed on file lists that the media player displays:

Table 1 File Formats

Media Type	File Extension
Image	.bmp .ico .gih .jpe .pnm .ppm .qti .qtif .tif .tiff
Movie	asf .avc .avi .dv .divx .wmv .mjpg .mjpeg .mpe .mp2p .vob .mp2t .m1v .m2v .mpg2 .mpeg2 .mp4ps .ts .ogm .mkv .rmvb .mov .hdmov .qt .bin .iso .asx
Music	3gp .aac .aif .aiff .at3p .au .snd .dts .rmi .mid .mp1 .mp2 .ogg .pcm .lpcm .116 .wma .mka .ra .rm .ram .flac .pls .m3u

Supported Media Players

- Sony® PlayStation®
- Microsoft® Xbox 360™

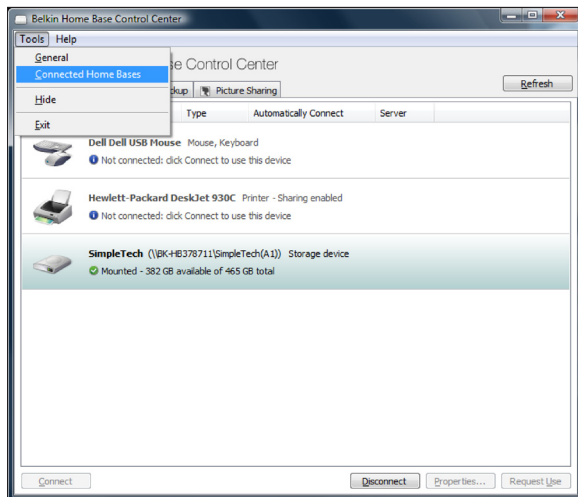
About

The “About” tab shows which version of Control Center you are running and software support contact information. Should you need to send an email support request, please include the software version number in your description.

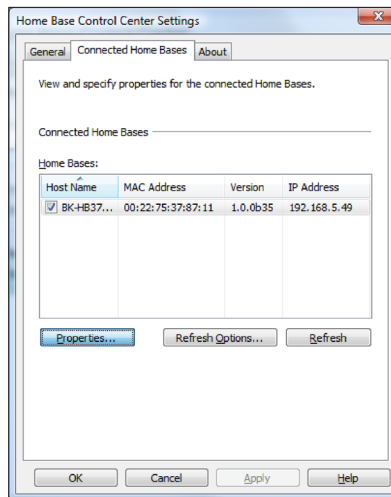
UPGRADING HOME BASE FIRMWARE

Firmware Update Instructions

From the Home Base Control Center software, click on “Tools”, then “Connected Home Bases”.



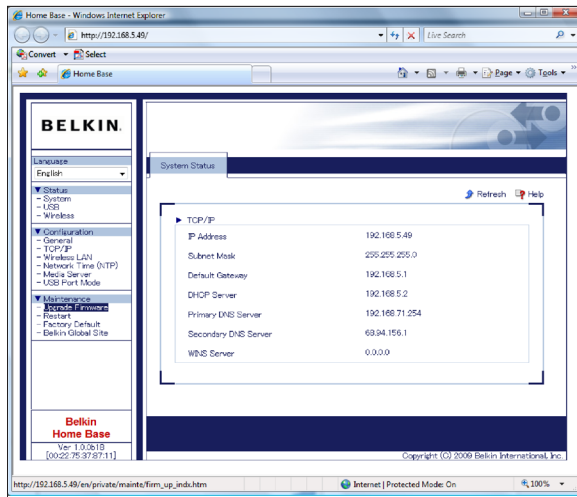
Choose your Home Base from the list (check the MAC address on the label of the bottom of Home Base with the MAC address in the list) and select “Properties”.



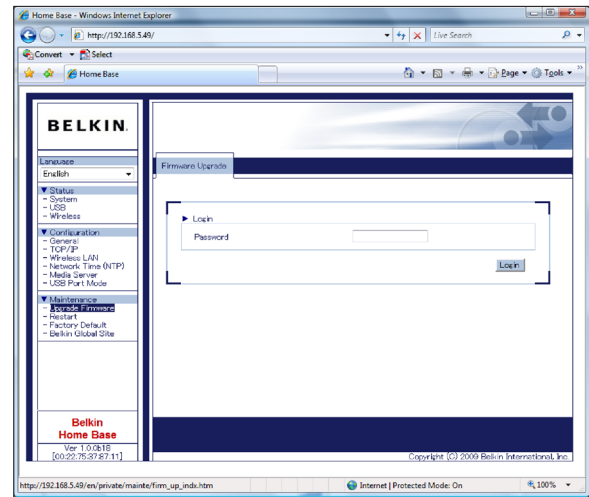
UPGRADING HOME BASE FIRMWARE

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Your web browser should open to the Home Base configuration page. Click on “Upgrade Firmware”.



Type in your Home Base password (there is no password by default), and click “Login”.



UPGRADING HOME BASE FIRMWARE

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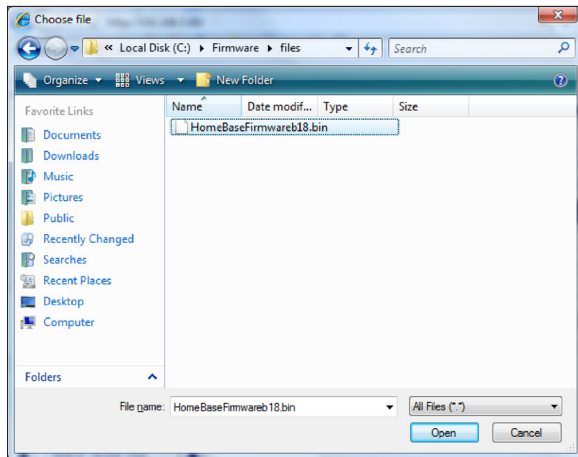
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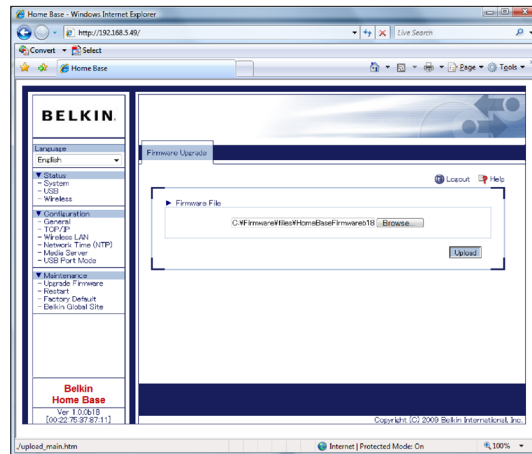
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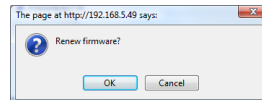
Browse to the firmware file you downloaded from the Belkin website and click “Open”.



Click “Upload”.



Click “OK” when the verification screen comes up.



Your firmware upgrade will take a few minutes to complete after confirmation. The firmware should now be upgraded.

General Troubleshooting

If you are having issues, be sure to try these general tips first:

Make sure the Home Base Control Center Software is the latest version, and the Home Base Firmware is the latest version. Software and Firmware updates are available on Belkin's website at <http://www.belkin.com>.

Control Center can't find a Home Base

1. Is the product turned on? The AC adapter may be unplugged. Check that the Power LED is lit.
2. Is the Link LED lit? If the Link LED is not turned on, it may not be connected properly. Try rerunning the Home Base Setup Wizard and configuring the wireless settings again (or try another network cable if you are using a wired connection).
3. Make sure your computer's wireless adapter and/or access point is configured properly and note the configuration settings, paying special attention to the wireless mode, SSID or network name, and WEP/WPA/WPA2 security, so you can configure your Home Base product to the same wireless settings.
4. Make sure you have a good wireless signal from the wireless access point or router to your computer and to Home Base, that Home Base is within range, and that it is away from metal objects and devices that generate radio interference (like Bluetooth® devices, cordless phones, and microwave ovens).

5. Is the network cable connected properly? The network (LAN) cable may be unplugged or have bad contacts. Verify the cable connections.
6. Is your computer on the network? If your computer is networked, try to see if you can connect to other network computers or if you can browse the Internet. Verify that the network is working properly.

Disks not appearing in Windows Explorer or Mac OS X Finder, other devices not appearing in Control Center

1. Is the USB cable connected properly? The USB cable may be unplugged or have bad contacts. Verify the cable connections.
2. Is the USB disk-drive format supported? Home Base supports FAT16-, FAT32-, and NTFS-formatted disk drives only. If you have a disk you want to connect that has a different file format, you can still connect to it in Network USB Mode, or you can reformat the disk to FAT32 or NTFS and use it in Network Storage Mode.

Note: Refer to the FAQ page of this manual for more information.

Unable to select a disk for backup

1. The backup function of Home Base supports FAT16-, FAT32-, and NTFS-formatted disk drives only.

Detection problems on machine with multiple active network interfaces

When multiple network interfaces are on a computer, sometimes Windows operating systems have issues with discovery over the network properly. In this case, from the Home Base Control Center, click on “Tools > Options”, “Refresh Options”, and then enter a broadcast address compatible with each network interface (for example, enter 255.255.255.0 for 172.16.XXX.XXX, etc.). By doing this, the Windows problem can be avoided.

Unreliable operation

1. Did you install any software just before your trouble occurred? The software may be causing a problem. Remove the software you installed and reinstall it.
2. Does the same problem occur after rebooting your PC? Rebooting the PC may solve the problem.

Resetting Home Base to Factory Defaults

You can often resolve issues by resetting Home Base to factory-default settings and running the setup software again. To reset Home Base to factory defaults, unplug the power, and push and hold the reset button down (you will need to use a paper clip or something small to hold it down) on the bottom side of Home Base. Plug the power back into Home Base while you are still holding down the reset button. When all of the LEDs light up on Home Base (after about 4–5 seconds), let go of the button. Home Base is reset to factory defaults.

Device Troubleshooting

If a device is visible in Control Center, but you cannot connect to it, your firewall may be blocking the connection. During installation, Control Center configures the Windows firewall to enable Home Base to operate properly. But if you are running a third-party firewall, you may need to specify settings to open a port and enable operation of the Home Base and Control Center. For information on how to do this with several types of popular firewalls, see the “Firewalls” section.

Printer Troubleshooting

When sharing a printer, the correct driver must be selected in the Device Properties’ “Connections” tab. For more information, see the “Printer Connection Properties” section.

VPN Troubleshooting

Home Base may not work with VPN (Virtual Private Network) as VPN filters the connection between the computer and other network devices. If you have VPN enabled and Home Base does not work, please turn off the VPN connection.

FIREWALLS

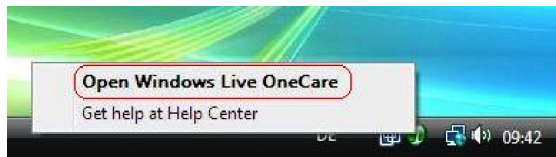
This topic shows you how to create an exception for Control Center in several popular firewall programs. Because firewalls are designed to block unwanted intrusions into your network, you must specify settings that tell the firewall that Control Center should be allowed to communicate with the Home Base on your network.

The instructions are for the versions of the firewall programs that appear below. If you have a different version of a given firewall, the locations of some options may differ from those provided here.

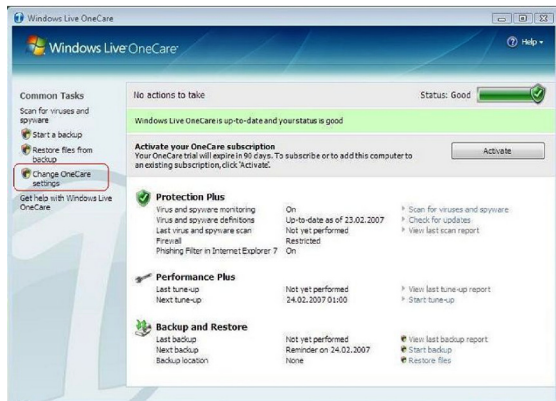
- Windows Live™ OneCare™
- McAfee® Security Center 2007
- Norton™ Internet Security 2007
- Trend Micro® PC-cillin Internet Security 2007
- ZoneAlarm®

Windows Live OneCare

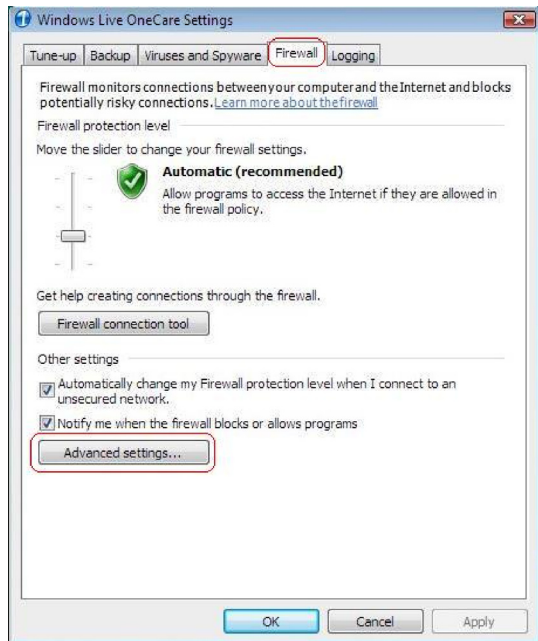
1. Right-click on the Windows Live OneCare icon in the task bar.



2. Click "Change OneCare settings".

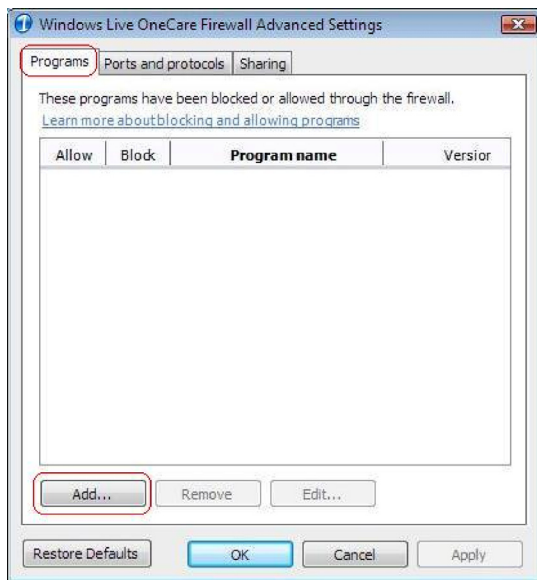


3. Select "Firewall" and click "Advanced settings".

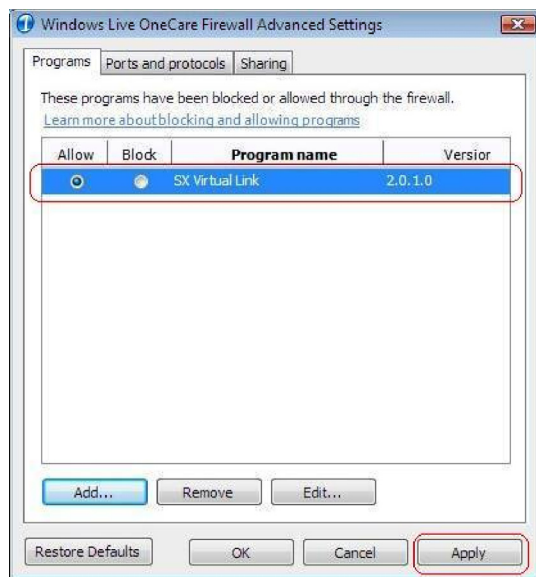


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4. Select “Programs” and click “Add”.

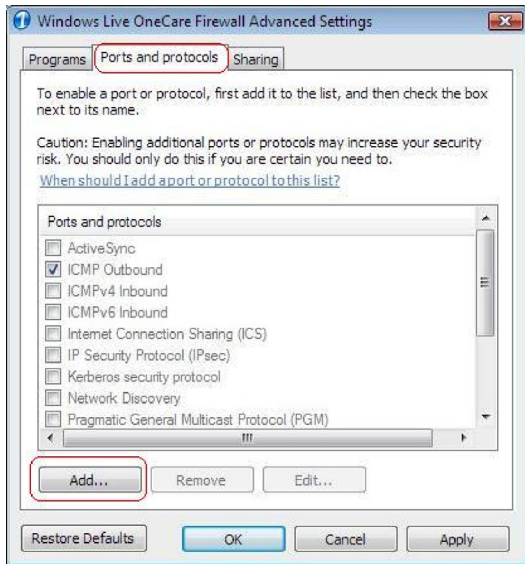


5. Select “connect.exe” from the folder where Control Center is installed. The default path is: C:\Program Files\BELKIN\Home Base Control Center\Connect.exe.



6. Check that the software is set to “Allow”. Click “Apply”.

7. Now go to “Ports and protocols” and click “Add”.



8. Add a new exception, one for outgoing data.

Name
Home Base (Out)
TCP or UDP
TCP
Port Range
19540 to 19540
For Connections
Outbound [remote ports]
Scope
Internet

Port and Protocol Information

Specify the protocol or port range that you want to allow through the firewall. To specify a protocol other than TCP or UDP, select Other.

Name: NIHCC(OUT)

Protocol

TCP or UDP: TCP

Port Range: 19540 to 19540

Other: Protocol number: 0

Connections for this protocol or port range

For Connections: Outbound [remote ports]

Scope: Internet Local network (subnet)

OK Cancel

9. Add another new exception, one for incoming data.

Name
Home Base (In)
TCP or UDP
UDP
Port Range
19540 to 19540
For Connections
Inbound [local ports]
Scope
Internet

Port and Protocol Information

Specify the protocol or port range that you want to allow through the firewall. To specify a protocol other than TCP or UDP, select Other.

Name: NIHCC(IN)

Protocol

TCP or UDP: UDP

Port Range: 19540 to 19540

Other: Protocol number: 0

Connections for this protocol or port range

For Connections: Inbound [local ports]

Scope: Internet Local network (subnet)

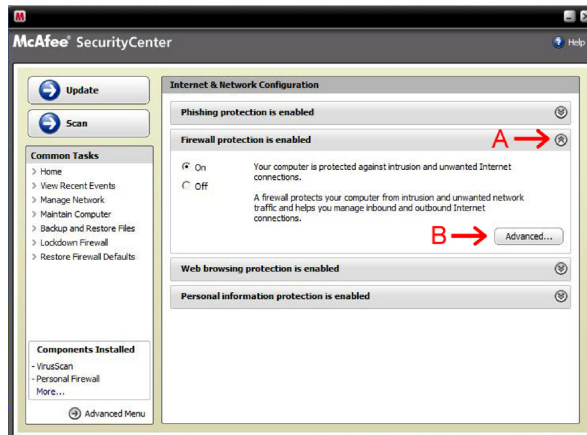
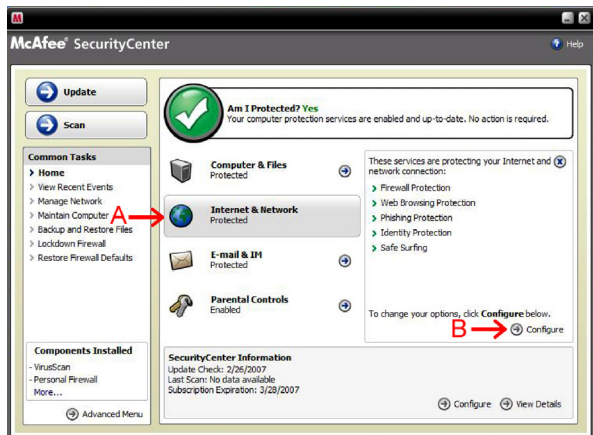
OK Cancel

10. Check the new exceptions you just created. Make sure that both exceptions are enabled.
11. Finish the configuration. You must reboot your computer for the changes to take effect.

FIREWALLS

McAfee Security Center 2007

1. Click "Start > All Programs > McAfee". Select "McAfee Security Center".
2. Select "Internet & Network" (A) and then click on the option to "Configure" (B).
3. Expand the "Firewall Protection is enabled" list by clicking on the arrows (A). Then click "Advanced" (B).



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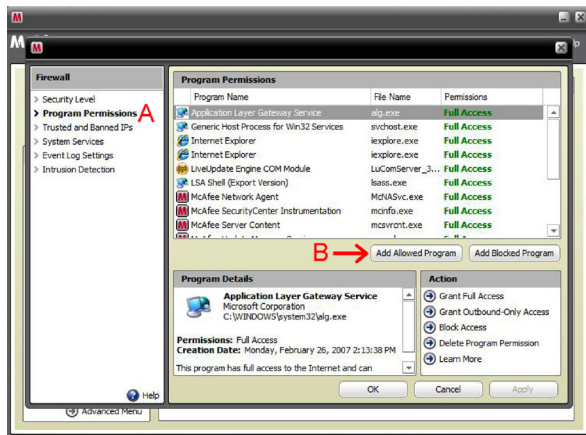
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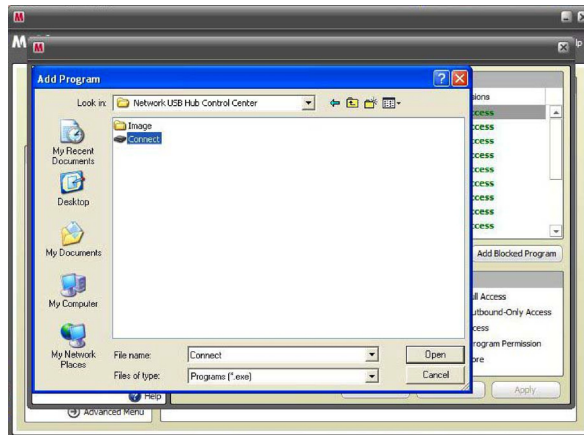
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4. Ensure that “Program Permissions” on the left is highlighted (A). Click “Add Allowed Program” (B).



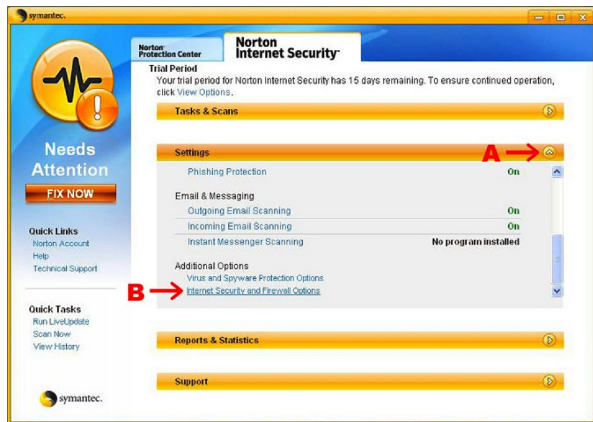
5. Browse to the folder where Control Center is installed. The default path is C:\Program Files\BELKIN\Home Base Control Center\Connect.exe. Select the program (highlighted below) and click “Open”.



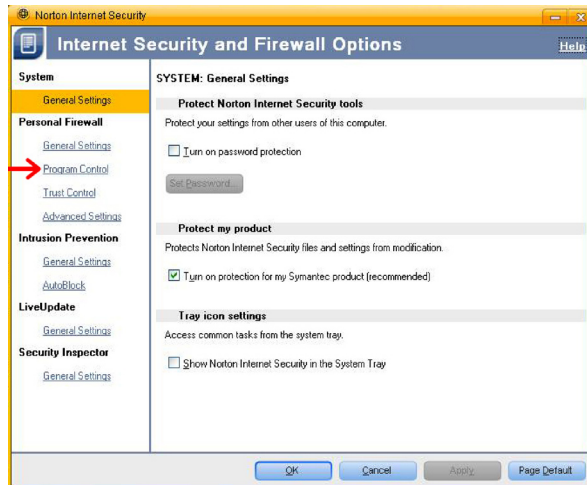
6. Click “OK”. You may need to reboot your computer for the new settings to take effect.

Norton Internet Security 2007

1. Go to "Start > All Programs > Norton Internet Security". Select "Norton Internet Security". Expand "Settings" (A), scroll down to "Internet Security and Firewall Options" (B) and click it.



2. Select "Program Control".



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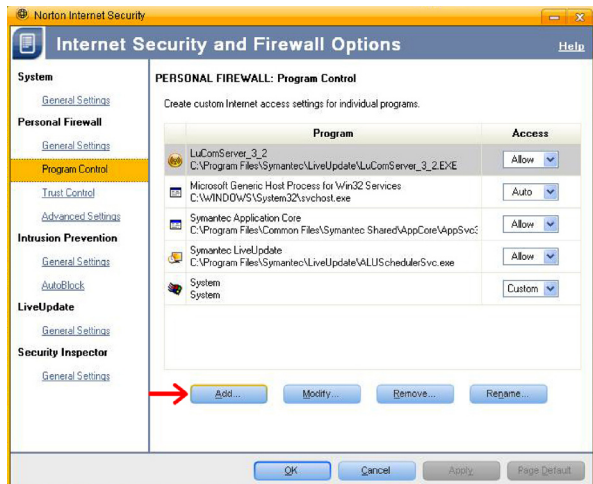
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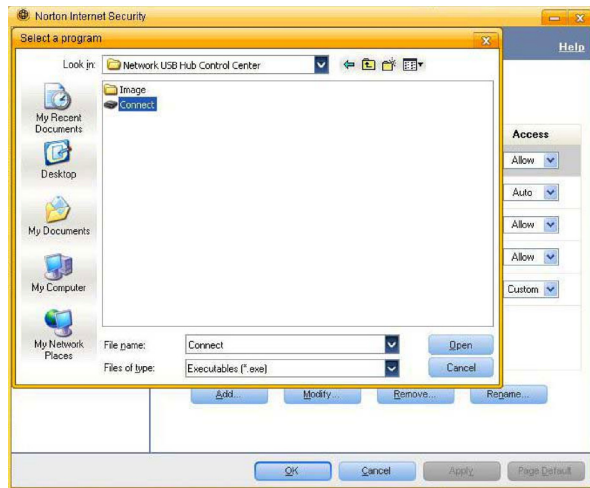
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3. Click "Add".



4. Browse to the folder where Control Center is installed. The default path is C:\Program Files\BELKIN\Home Base Control Center\Connect.exe. Select the program (highlighted below) and click "Open".



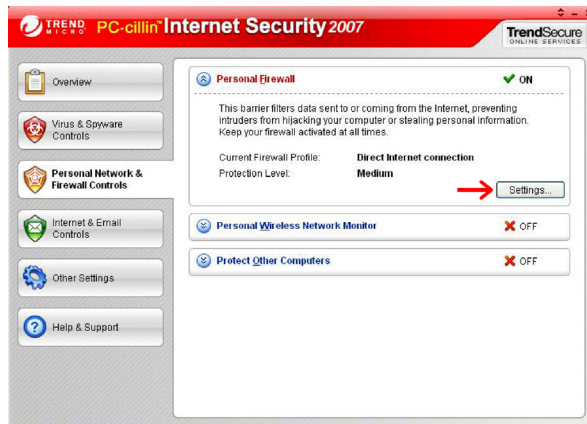
FIREWALLS

5. Program control will then ask you for the appropriate action for this program. Choose “Allow” and click “OK”.
6. Click “Apply”. This confirms and applies the exception for Control Center. Click “OK” to exit. You may need to reboot your computer for the changes to take effect.



Trend Micro PC-cillin Internet Security 2007

1. Go to “Start > All Programs > Trend Micro PC-cillin Internet Security 2007”. Select “Trend Micro PC-cillin Internet Security 2007”.
2. Click “Personal Network & Firewall Controls” on the left.
3. Click “Settings”.



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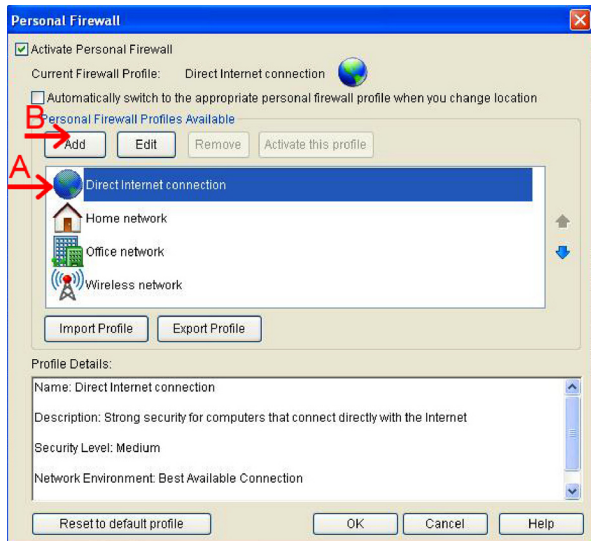
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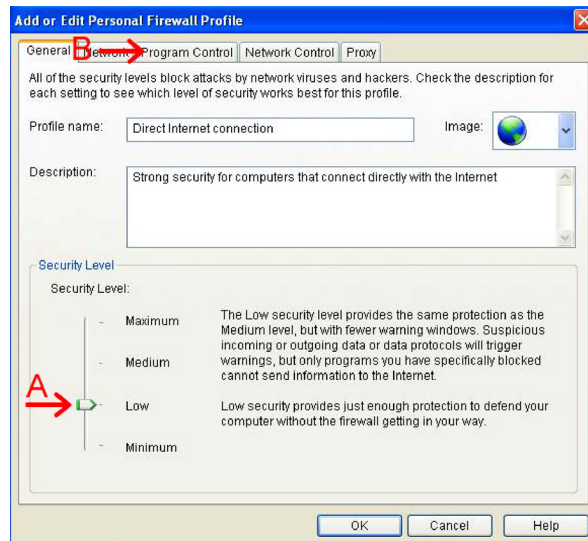
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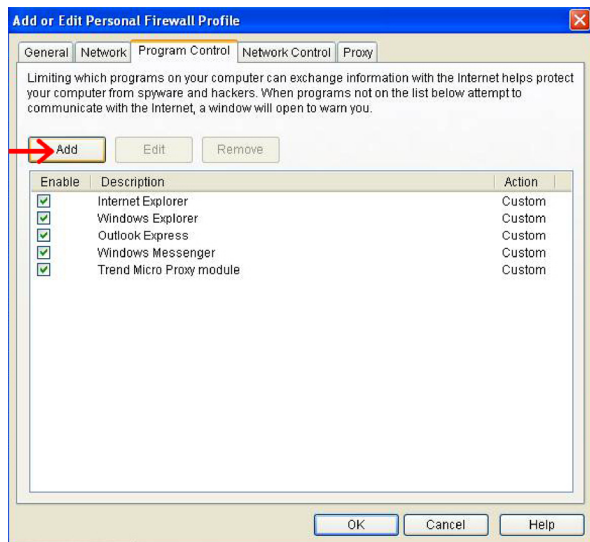
4. Ensure that the option “Direct Internet connection” is highlighted (A), and then click “Add” (B).



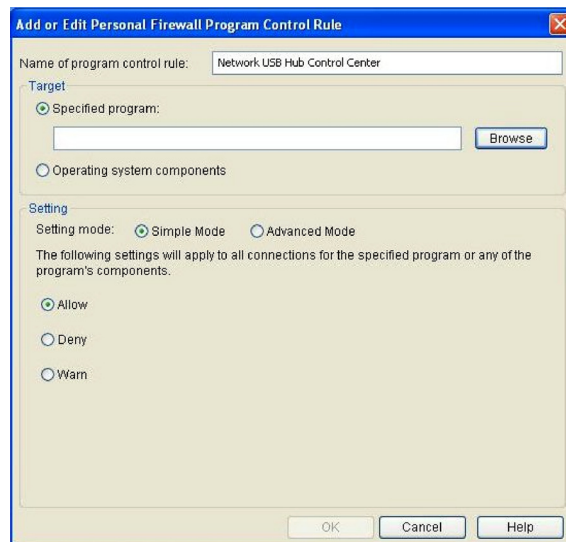
5. On the next screen ensure that the security level is set to “Low” (A). Click the “Program Control” tab (B).



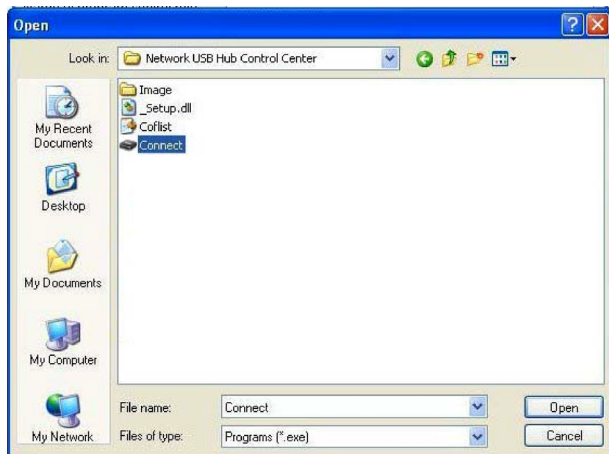
6. Click "Add".



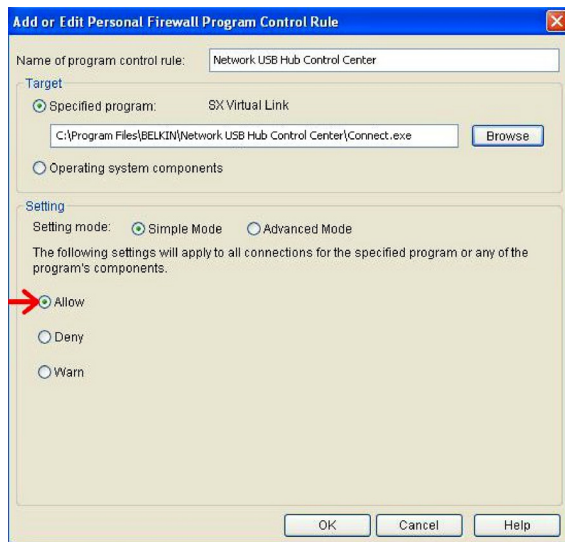
7. Browse to the folder where Control Center is installed. The default path is C:\Program Files\BELKIN\Home Base Control Center\Connect.exe.



Select the program “Connect” and click “Open”.



8. Ensure that the program setting is set on “Simple Mode” and that the “Allow” option is selected. Click “OK”, and then “OK” once more.



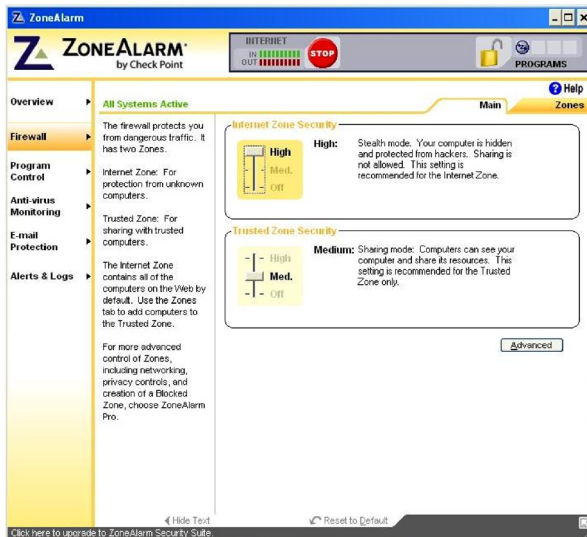
You may need to reboot your computer for the changes to take effect.

ZoneAlarm

1. In Control Center, click “Configure General Hub Settings” under “Tasks” in Control Center. The “Home Base Settings Properties” tabs appear. Select the “Connected Home Bases” tab.
2. Write down the IP address of your Home Base.
3. Right-click on the ZoneAlarm icon in the task bar and open the ZoneAlarm Control Center.



4. Select “Firewall”. Select “Zones” and click “Add”.

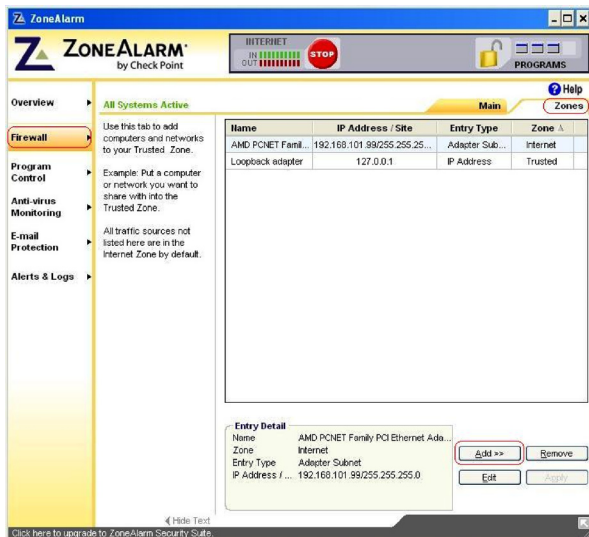


5. Select "IP Address".



6. Enter the IP address that you wrote down earlier. Click "OK".
7. Verify your settings.

8. Make sure that the IP address of Home Base is listed in the "Trusted" zone and click "Firewall". The connection in Control Center should now be enabled.



Control Center and USB devices ("Available Devices" tab)

Q: *I can see a USB device in Control Center, but I can't connect to it. What should I do?*

A: Check your firewall settings. During installation, the Control Center configures the Windows firewall to enable connection, but third-party firewalls may require additional settings. For more information about how to configure several specific firewalls, see the "Firewalls" section.

Q: *Does this product work with any-speed USB device?*

A: Yes. The Home Base supports Hi-, full-, and low-speed devices. Information about the type of speed supported by a device is gathered by Control Center from the device and displayed in the Device Properties' "General" tab.

Q: *Why does the Windows AutoPlay screen appear every time I connect to a device?*

A: By default, Windows automatically plays many types of USB devices. You can turn off this feature in Windows XP by clicking "Start" and "Run". In the "Run" field, type in "gpedit.msc" (without the quotes). On the "Group Policy" screen, select "Computer Configuration > Administrative Templates". Click "System". Double-click "Turn off Autoplay". On the "Setting" tab, select "Disabled" and click "OK".

Q: *Why would I want to automatically start a specific piece of software when I connect to a device?*

A: Many USB items use specific software to carry out their functions. For example, a webcam will need software to capture video. The Belkin Control Center enables you to specify that the software automatically start when a device is connected to the Home Base. For more information, see Device Properties' "Connection" tab.

Q: *Do I have to shut down Control Center completely before installing an update? Do I need to reboot my computer after installing?*

A: No, you can install updates while Control Center is running and devices are connected. You do not need to reboot your computer after installing an update.

USB disk drives and other storage devices

Q: *What is a NAS (Network Attached Storage)?*

A: A NAS device is a server specifically designed for handling files. Network Attached Storage is accessible directly on the local area network (LAN) from multiple users.

Q: *What file systems can be used with Home Base in NAS mode?*

A: Home Base will automatically mount FAT12, FAT16, FAT32, and NTFS volumes in NAS mode. Disks using other file systems will be available to one user at a time in Network USB mode.

Q: How do I access USB disk drives connected to Home Base?

A: In Windows, Control Center automatically maps a new drive letter for your computer for each supported USB disk drive connected to Home Base. You can access the drive by going to “Computer” (or “My Computer” if you are using Windows XP).

You can go to Windows Internet Explorer and type “\\BK-HBxxxxxx” (where “xxxxxx” is the last six digits of Home Base’s MAC address, printed on the bottom of Home Base) into the address bar. Alternatively, you can browse the Windows network and look for “\\BK-HBxxxxxx” in the list of available network devices.

For Macintosh® computers, Control Center automatically mounts discs connected to Home Base to the desktop. Alternatively, click “Go > Connect to server” to connect to the disk.

Q: How are drive letters mapped on Windows?

A: When Control Center is running, disk volumes will be mapped to drive letters starting with Z to avoid collision with commonly used drive letters.

Q: What is the difference between Network USB mode and NAS mode?

A: In Network USB mode, it is as if the USB device is connected directly to your computer by a USB cable. If one person is using a device, no one else will be able to connect to it. Many different kinds of devices can be used. In NAS mode, a USB device can be accessed from multiple computers at the same time; this only works with USB storage devices and file sharing.

Q: Are there any limitations to how much data can be shared?

A: No, the amount of data that can be shared depends on the size of the connected disk.

Q: Can files be shared between Windows and Mac OS?

A: Yes, files can be shared between Windows and Mac OS X computers.

Q: Can filters be applied to prevent certain people from accessing files?

A: Files are made public to all computers on the network.

Q: Can a password be set for a file?

A: Passwords cannot be set. If security is necessary, use file-compression software to create a password-protected archive.

Q: Can files be encrypted when used with the Home Base NAS feature?

A: No, files are all saved as they are. This applies to disks formatted as NTFS, too.

Q: Can compressed disk drives be used?

A: No, compressed drives cannot be shared via Home Base's NAS feature.

Q: What protocol is used for sharing?

A: The Windows file-sharing protocol is used. It is commonly referred to as SMB or CIFS.

Q: What is the password to log in to the FTP server?

A: The user ID is root, and the password is the password you configured on the web page, if any. By default, there is no password. In this case, log in by pressing the "Enter" key without entering a password.

Q: Is it safe to unplug a connected USB device at any time?

A: The device you are unplugging may be in use by another PC or accessed by picture sharing, etc. Data may be destroyed if unplugged suddenly. Always follow the "Safe Removal" procedure to remove devices.

Q: Can I log in to a network domain environment using the NAS mode?

A: A domain environment cannot be logged in to.

Q: When multiple USB disk drives are connected, can they be set up to use RAID?

A: A RAID cannot be established using multiple disks attached to Home Base, but Home Base can access a USB RAID device as a single disk.

TECHNICAL SUPPORT

You can find technical support information at <http://www.belkin.com/networking> or www.belkin.com through the tech support area. If you want to contact technical support by phone, please call:

Belkin Tech Support

US: 877-736-5771

800-223-5546 ext.2263

310-898-1100 ext.2263

UK: 0845 607 77 87

Australia: 1800 235 546

New Zealand: 0800 235 546

Singapore: 65 64857620

Europe: www.belkin.com/support

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FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin International, Inc., of 501 West Walnut Street, Compton, CA 90220, declare under our sole responsibility that the device,

F5L049

complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Exposure to Radio Frequency Radiation.

The device shall be used in such a manner that the potential for human contact normal operation is minimized.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

For IEEE 802.11b/g/n products in the USA market, only channels 1 through 11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Modifications

The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by Belkin International, Inc., may void the user's authority to operate the equipment.

Industry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

IMPORTANT NOTE: Radiation Exposure Statement

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This device has been designed to operate with an antenna having a maximum gain of 2 dB. An antenna with a higher gain is strictly prohibited per regulations of Industry Canada. The required antenna impedance is 50 Ohms.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme à la norme NMB-003 du Canada.

For product available in the USA/Canada market, only channel 1-11 can be operated. Selection of other channels is not possible.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that permitted for successful communication.

Europe – EU Declaration of Conformity

This device complies with the essential requirements of the R&TTE Directive 1999/5/EC. The following test methods have been applied in order to prove presumption of conformity with the essential requirements of the R&TTE Directive 1999/5/EC:

EN60950-1: 2006: Safety of Information Technology Equipment

EN50385: 2002-08: Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to human exposure to radio frequency electromagnetic fields (110MHz–40GHz) - General public

EN 300 328 V1.7.1: 2006-10: Electromagnetic compatibility and radio spectrum matters (ERM); wideband transmission systems; data transmission equipment operating in the 2.4GHz ISM band and using spread spectrum modulation techniques; harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive

EN 301 489-1 V1.8.1: 2008: Electromagnetic compatibility and radio spectrum matters (ERM); electromagnetic compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements

EN 301 489-17 V1.3.2: 2008: Electromagnetic compatibility and radio spectrum matters (ERM); electromagnetic compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for 2.4GHz wideband transmission systems and 5GHz high-performance RLAN equipment

This device is a 2.4GHz wideband transmission system (transceiver), intended for use in all EU member states and EFTA countries, except in France and Italy where restrictive use applies.

In Italy the end user should apply for a license at the national spectrum authorities in order to obtain authorization to use the device for setting up outdoor radio links and/or for supplying public access to telecommunications and/or network services.

This device may not be used for setting up outdoor radio links in France and, in some areas, the RF output power may be limited to 10mW EIRP in the frequency range of 2454–2483.5MHz. For detailed information, the end user should contact the national spectrum authority in France.

Open Source Software

This product contains software that is licensed under the GNU General Public License (GPL). The corresponding source code is available on the Belkin Open Source website, <http://www.belkin.com/support/opensource/>. You can also obtain a physical copy of the source code upon request at <http://www.belkin.com/support/opensource/>. There may be a small charge applied for the physical copy.

The source code that can be found at the website and that is physically distributed is complete to the best of Belkin's knowledge. If you believe any additional (or different) source code should be provided under the GPL, please contact Belkin at <http://www.belkin.com/support/opensource/> and provide in detail the product part number, version number, firmware version number, and the name of the code module in question. Belkin is committed to meeting the requirements of the GPL and of any open source licenses and will make all required source code available.

For more information on the GPL, please go to <http://www.gnu.org/licenses/licenses.html>. A copy of the full GPL License is included on the setup CD. (Open My Computer, right-click on your CD/DVD drive, and select "Explore", e.g., D:\GPL License.txt.)

Belkin International, Inc., Limited 1-Year Product Warranty

What this warranty covers.

Belkin International, Inc. ("Belkin") warrants to the original purchaser of this Belkin product that the product shall be free of defects in design, assembly, material, or workmanship.

What the period of coverage is.

Belkin warrants the Belkin product for one year.

What will we do to correct problems?

Product Warranty.

Belkin will repair or replace, at its option, any defective product free of charge (except for shipping charges for the product). Belkin reserves the right to discontinue any of its products without notice, and disclaims any limited warranty to repair or replace any such discontinued products.

In the event that Belkin is unable to repair or replace the product (for example, because it has been discontinued), Belkin will offer either a refund or a credit toward the purchase of another product from Belkin.com in an amount equal to the purchase price of the product as evidenced on the original purchase receipt as discounted by its natural use.

What is not covered by this warranty?

All above warranties are null and void if the Belkin product is not provided to Belkin for inspection upon Belkin's request at the sole expense of the purchaser, or if Belkin determines that the Belkin product has been improperly installed, altered in any way, or tampered with. The Belkin Product Warranty does not protect against acts of God such as flood, lightning, earthquake, war, vandalism, theft, normal-use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances (i.e. brownouts or sags), non-authorized program, or system equipment modification or alteration.

How to get service.

To get service for your Belkin product you must take the following steps:

1. Contact Belkin International, Inc., at 501 W. Walnut St., Compton, CA 90220, Attn: Customer Service, or call (800)-223-5546, within 15 days of the Occurrence. Be prepared to provide the following information:
 - a. The part number of the Belkin product.
 - b. Where you purchased the product.
 - c. When you purchased the product.
 - d. Copy of original receipt.
2. Your Belkin Customer Service Representative will then instruct you on how to forward your receipt and Belkin product and how to proceed with your claim.

Belkin reserves the right to review the damaged Belkin product. All costs of shipping the Belkin product to Belkin for inspection shall be borne solely by the purchaser. If Belkin determines, in its sole discretion, that it is impractical to ship the damaged equipment to Belkin, Belkin may designate, in its sole discretion, an equipment repair facility to inspect and estimate the cost to repair such equipment. The cost, if any, of shipping the equipment to and from such repair facility and of such estimate shall be borne solely by the purchaser. Damaged equipment must remain available for inspection until the claim is finalized. Whenever claims are settled, Belkin reserves the right to be subrogated under any existing insurance policies the purchaser may have.

How state law relates to the warranty.

THIS WARRANTY CONTAINS THE SOLE WARRANTY OF BELKIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR, EXCEPT AS REQUIRED BY LAW, IMPLIED, INCLUDING THE IMPLIED WARRANTY OR CONDITION OF QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SUCH IMPLIED WARRANTIES, IF ANY, ARE LIMITED IN DURATION TO THE TERM OF THIS WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

IN NO EVENT SHALL BELKIN BE LIABLE FOR INCIDENTAL, SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR MULTIPLE DAMAGES SUCH AS, BUT NOT LIMITED TO, LOST BUSINESS OR PROFITS ARISING OUT OF THE SALE OR USE OF ANY BELKIN PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights, and you may also have other rights, which may vary from state to state. Some states do not allow the exclusion or limitation of incidental, consequential, or other damages, so the above limitations may not apply to you.

BELKIN®

www.belkin.com

Belkin Tech Support

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800-223-5546 ext.2263
310-898-1100 ext.2263
UK: 0845 607 77 87
Australia: 1800 235 546
New Zealand: 0800 235 546
Singapore: 65 64857620
Europe: www.belkin.com/support

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