# Buffalo Web Access

LinkStation Pro™ LS-XHL

What is WebAccess ?

The Web Access feature is designed to share content (Photo's, Music, Movies, and files) from your home network to remote users anywhere on the Internet using a web browser.

- Simply direct the remote users to *http://www.buffalonas.com* and provide them with the BuffaloNas Name, the ID and Password you setup during the configuration process.

- When the remote user accesses *http://www.buffalonas.com* the web server will redirect the remote users to your home NAS (Network Attached Storage) so they can securely access the content (download and upload).
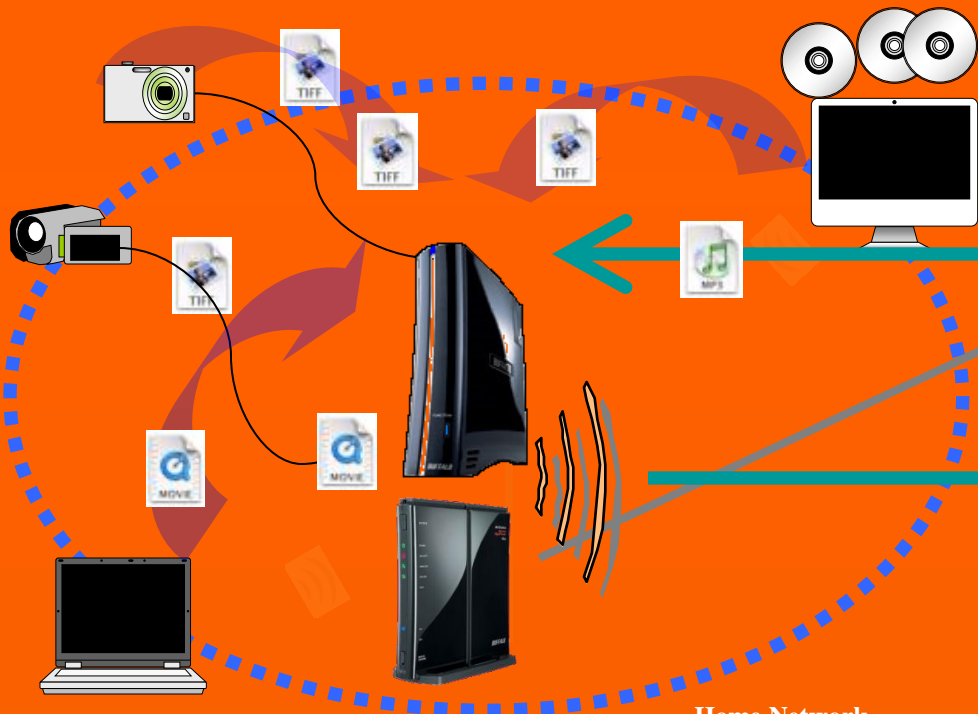
Typical Web Access Setup

Home LinkStation

Internet

Remote user

Service Provider

Service Provider

Router

Router

BuffaloNAS
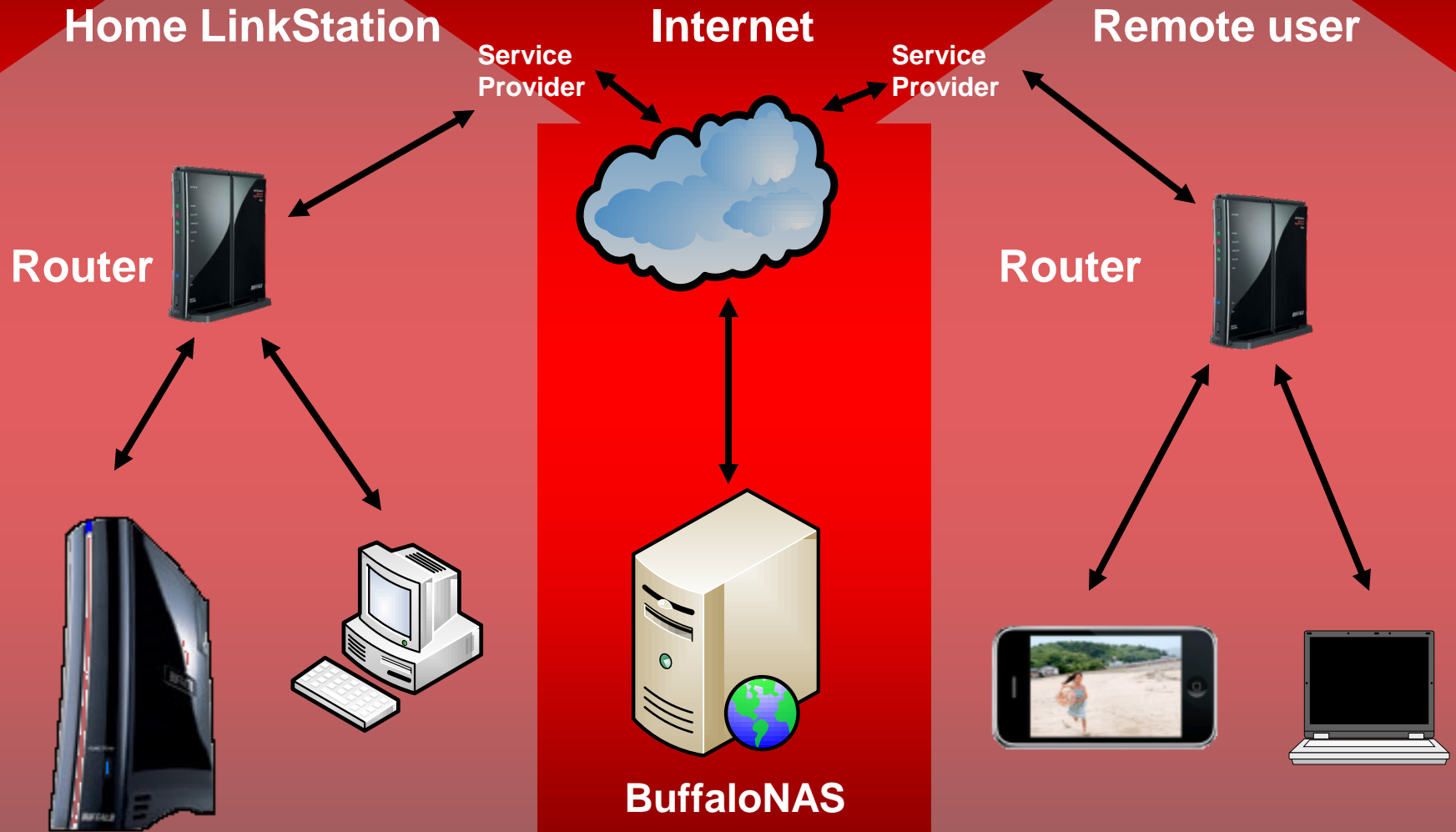
Web Access Usage
Access your LinkStation from the Internet. Users can upload and download freely.

Store movies, music, and photos on your LinkStation.

Play, download, and upload from the Internet!
It's possible to play and download your photos and movies from friend's or family's house.
It's easy to share photos and/or movies

Home Network (Wireless/Wired)

Edit, organize, and watch on the computer.

**Access to LinkStation from iPhone / iTouch-!**
Play music and videos stored on the LinkStation.
No need to sync all music files any more. Simply use the Web Access to play favorite media files!

LinkStation Web Access Setup Steps

1. **Create User and Password**
2. **Create Share**
3. **Add Access Restrictions to Share**
4. **Select Web Access Share**
5. **Create BuffaloNAS Web Access Name**
6. **Create BuffaloNAS Web Access Key**

Logon Screen

1. **Access LinkStation Configuration Interface by typing in the IP address of Unit into favorite browser. Log on using the admin user and password, then click "Login"**
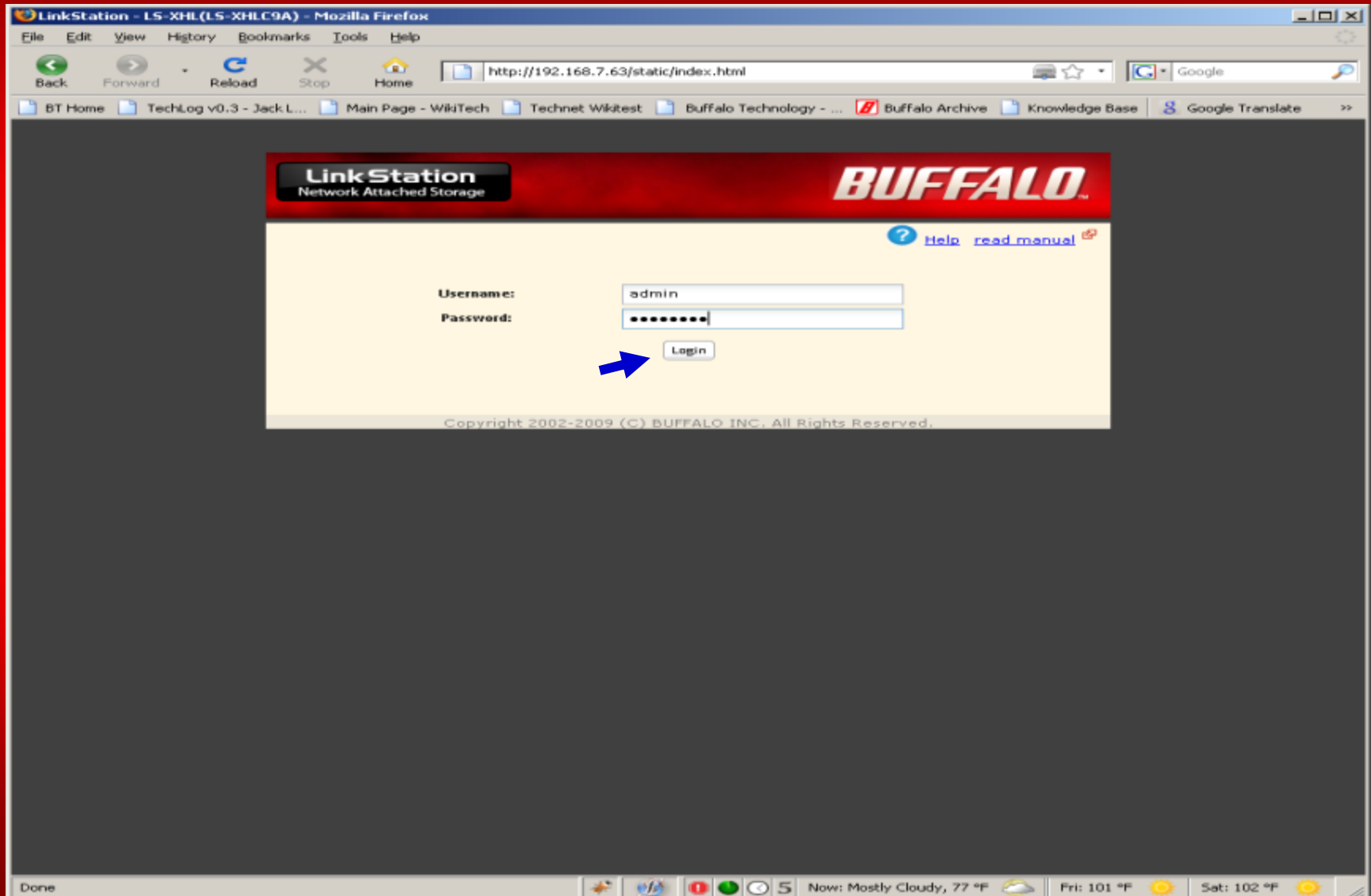
2. Click on "Users/Groups" tab, then "Local Users" tab.
3. Create User - Username - To add a new user, enter a username and password. A description for the user may also be entered. Click save to finish process

**LinkStation Web Access Setup Steps**
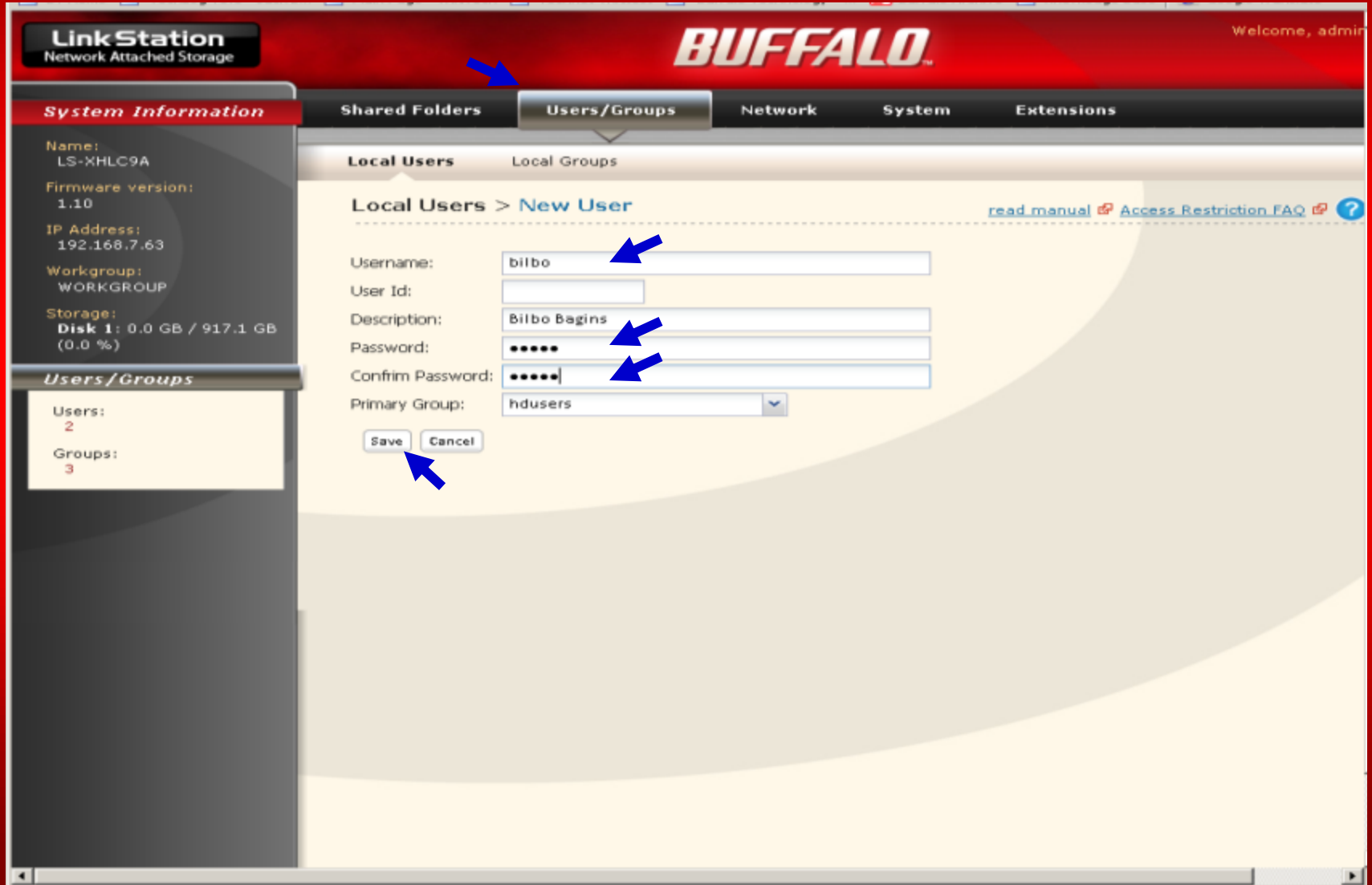
4. Shared Folders - Click [Create Folder] to add a new shared folder to the list. To edit the properties of an existing folder, click on that shared folder's name.
5. Add New Shared Folder - Shared Folder Names, Shared Folder Descriptions, Volume is the array on which the shared folder will be located. Check the Access Restriction box and continue.


If you want the share to have "Read only" permissions, then click the "Read Only" button in the "Shared Folder Attributes:" section of the setup screen. "Read & Write" is the default setting.

6. Click Local Users Tab and then click the Add button. Select user that you want to give access to this share, then Click the Add button.
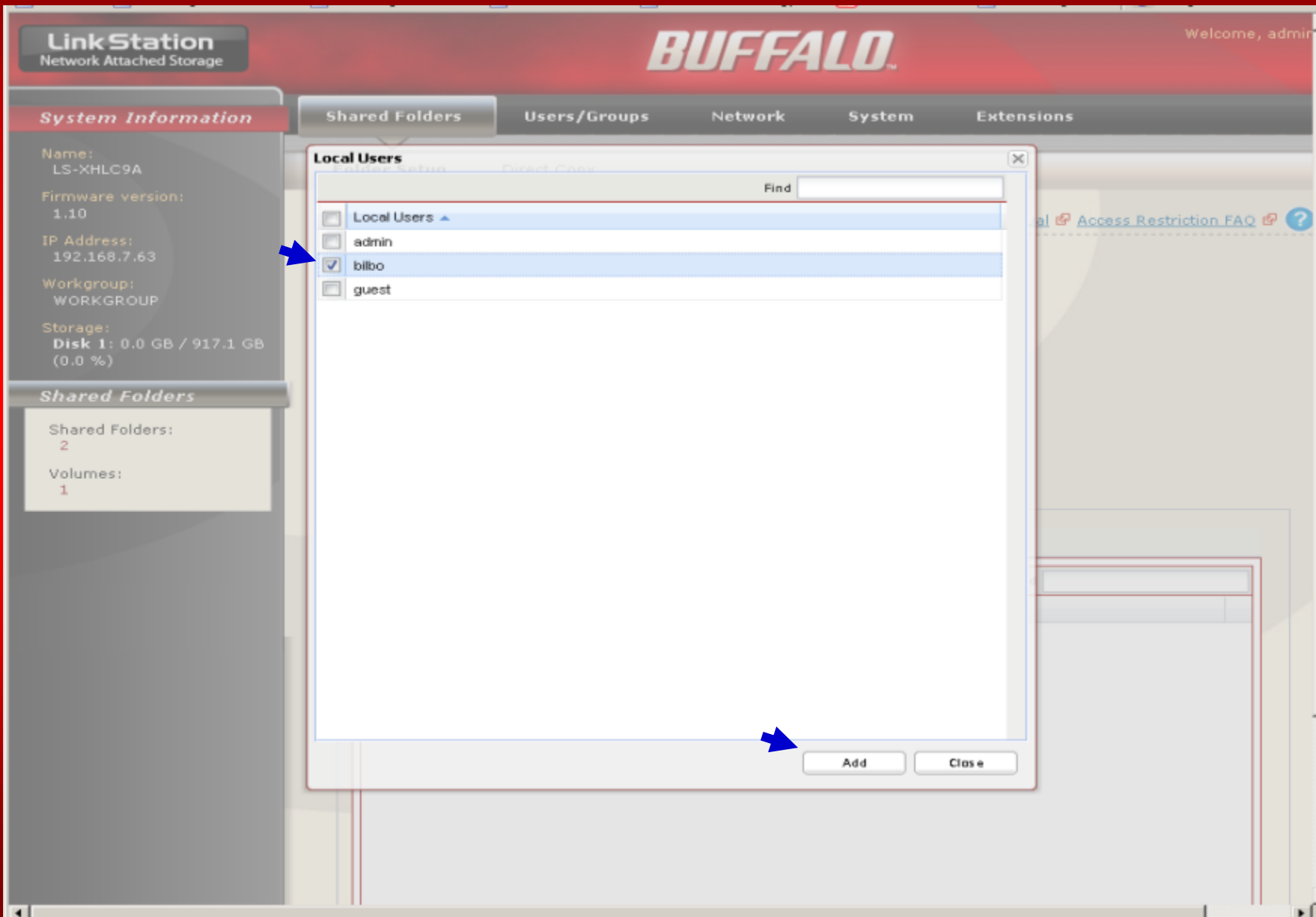
7. User name will be added under the Access Restrictions portion of the screen. Read Only permissions will be set, by default. Left mouse click on "Read only" to change permissions for each user added to a share. Be sure to click Save after each change.
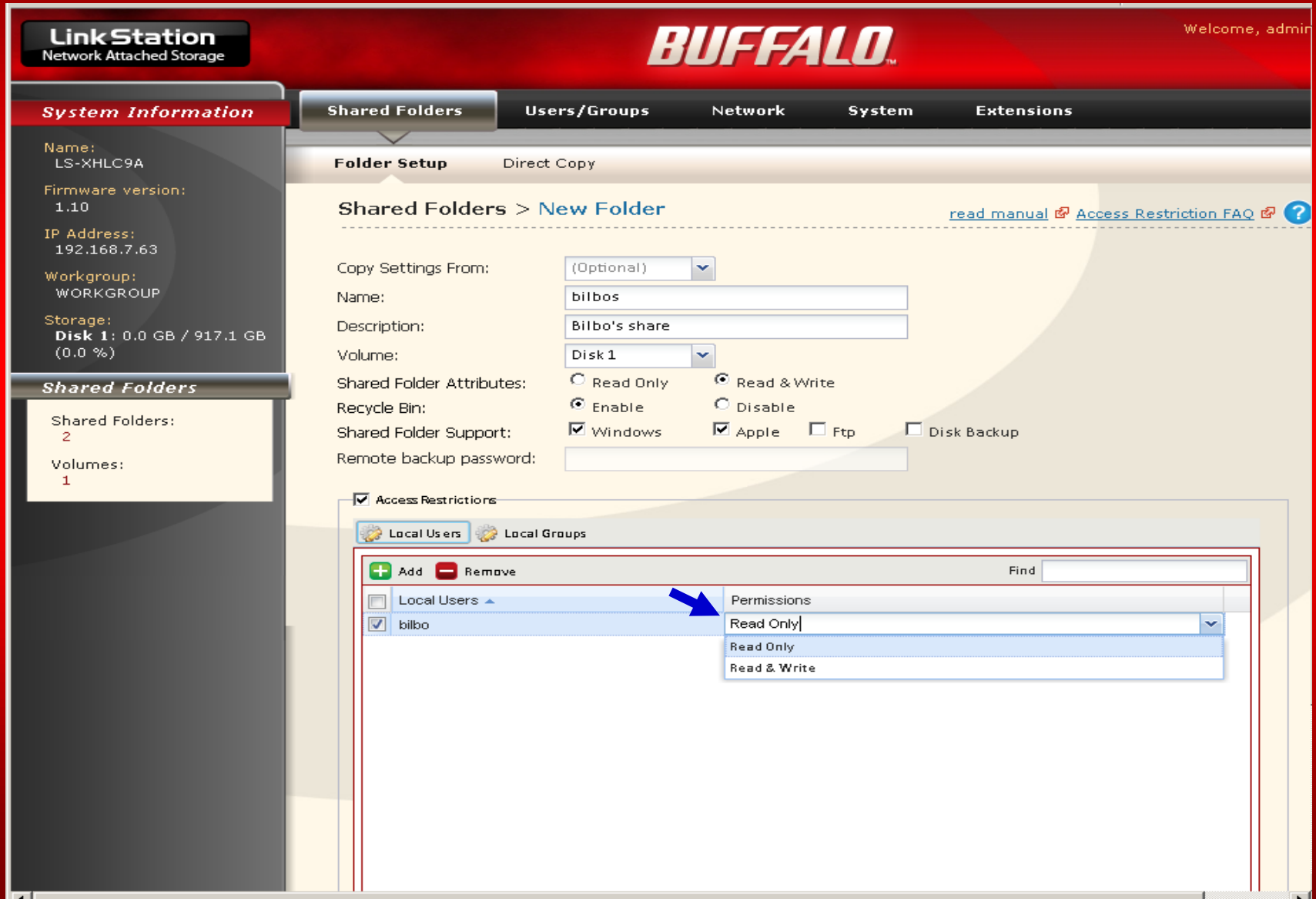
8. Click on Extensions, then WebAccess. Click on the share that you want to use as the Web Access share.

9. Click on a shared folder name to edit WebAccess settings for that folder. Use inherited folder permissions - This will allow people with specific permissions to use the folder/share on the LinkStation to access it remotely. Click Save after selection has been made.

10. Click Modify Settings, this will allow enabling and setting up the WebAccess share

LinkStation Web Access Setup Steps

11. Select the Enable radio button
12. Make sure the Use *Buffalonas.com* is checked.
13. Enter the name you want to use for the *Buffalo.com Name:*.
14. Enter the *Buffalo.com Name:*.

15. Uncheck the "Auto-Configure Firewall(UPnP)
14. Enter "9000" In the "External Port" box.
16. Click Save to save your settings.

System Information	**Shared Folders**	**Users/Groups**	**Network**	**System**	**Extensions**	

WebAccess   MediaServer   PrintServer   BitTorrent   Time Machine

WebAccess   read manual ❧ Web Access FAQ ❧ ❓ Help

Name:
JohnsPro

Firmware version:
1.10

IP Address:
192.168.7.152

Workgroup:
WORKGROUP

Storage:
Disk 1: 27.1 GB / 917.1
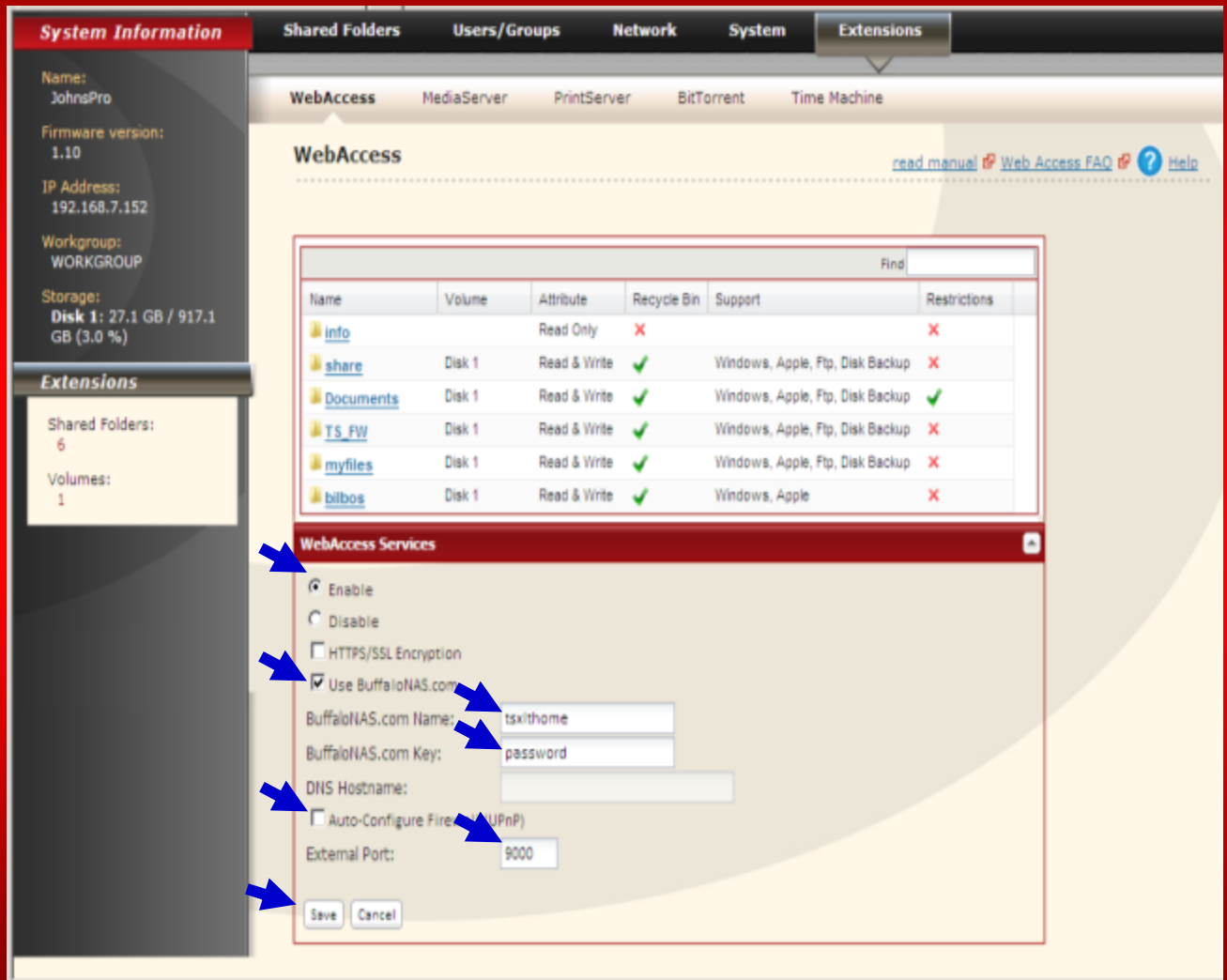GB (3.0 %)

Extensions

Shared Folders:
6

Volumes:
1

Name	Volume	Attribute	Recycle Bin	Support		Restrictions
info		Read Only	✗			✗
share	Disk 1	Read & Write	✓	Windows, Apple, Ftp, Disk Backup		✗
Documents	Disk 1	Read & Write	✓	Windows, Apple, Ftp, Disk Backup		✓
TS_FW	Disk 1	Read & Write	✓	Windows, Apple, Ftp, Disk Backup		✗
myfiles	Disk 1	Read & Write	✓	Windows, Apple, Ftp, Disk Backup		✗
bilbos	Disk 1	Read & Write	✓	Windows, Apple		✗

Find [   ]

WebAccess Services

⊙ Enable
○ Disable
☐ HTTPS/SSL Encryption
☑ Use BuffaloNAS.com
BuffaloNAS.com Name: [tsxithome]
BuffaloNAS.com Key: [password]
DNS Hostname: [   ]
☐ Auto-Configure Firewall (UPnP)
External Port: [9000]

[Save] [Cancel]

Note - Forward port 9000 in the router to the IP of the buffalo device, if you are unsure how to do this please consult page 39 or consult the manufacture"

17. This page will show you the External Port, "9000", in this case.
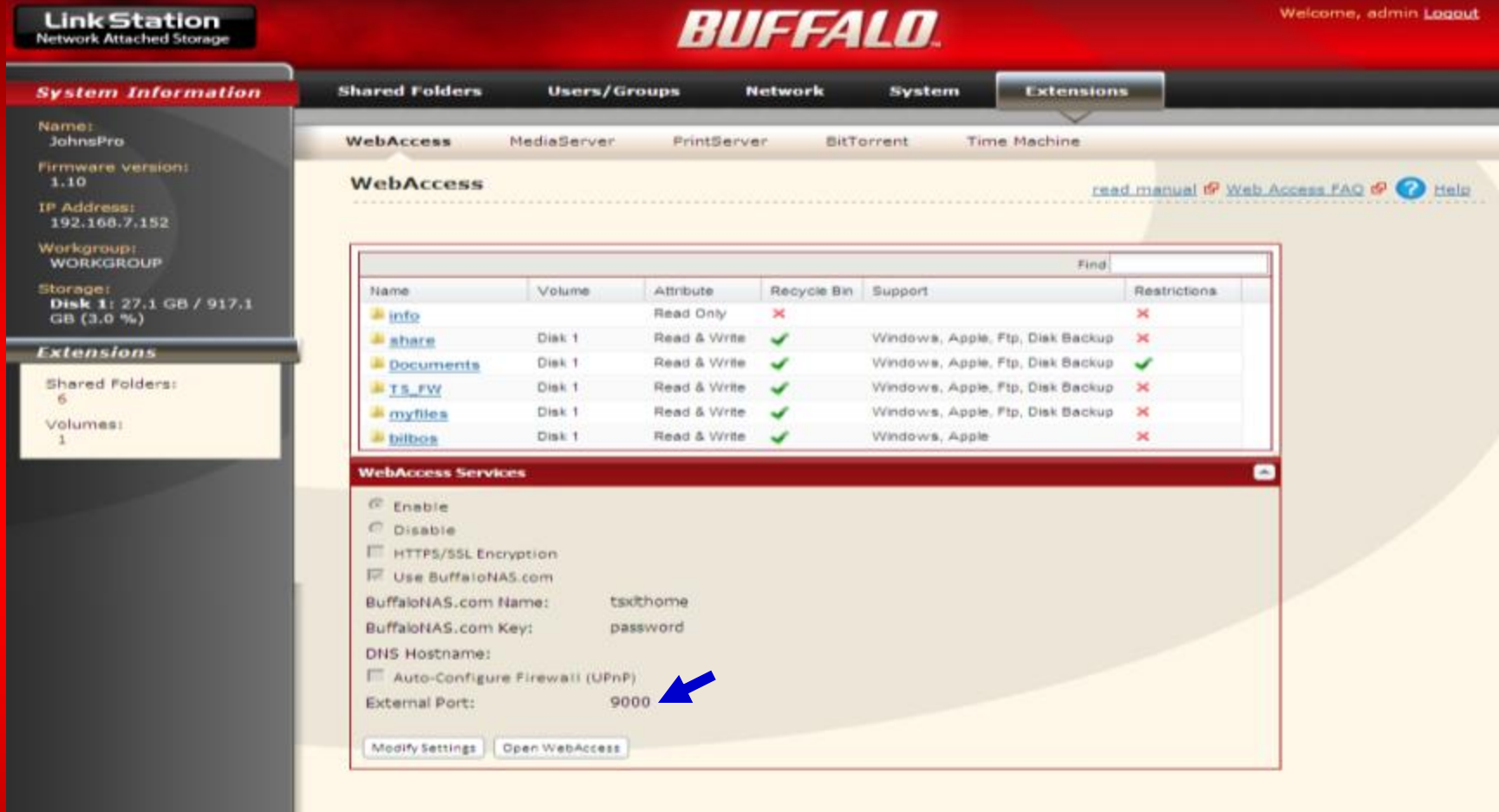
Congratulations – Your LinkStation is correctly configured

If you do not receive this screen or receive an error, please recheck your Router and Computer settings

Note - Forward port 9000 in the router to the IP of the buffalo device, if you are unsure how to do this please consult page 39 or consult the manufacture"

Copying Files From Local Computer to Web Access Share (NasNavi)

1. Click on and open NasNavi2 by double mouse click on LinkStation Icon
2. Double mouse click on the LinkStation share created to share your files
3. You will have to enter LinkStation User and Password you created
4. Double mouse click on the share you created on the LinkStation
5. Locate files on local drive that you want to copy to share using MS explorer
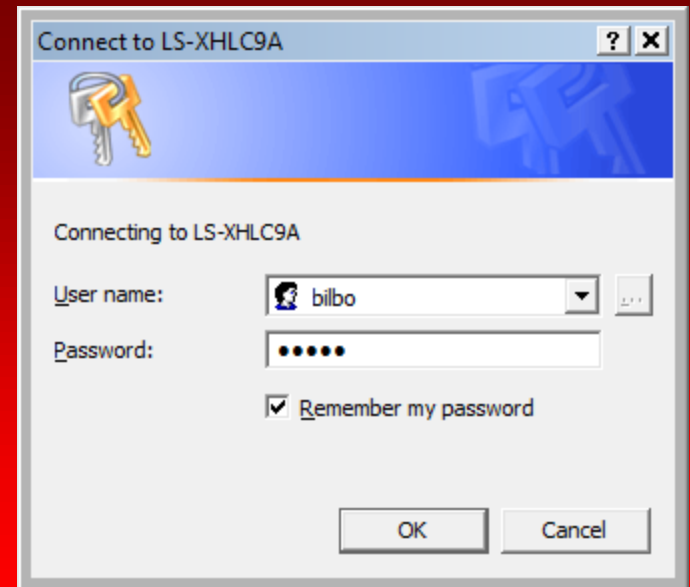6. Highlight the files and drag them to the LinkStation share

1. **Click on and open NasNavi2 by double mouse click on LinkStation Icon on your desktop**
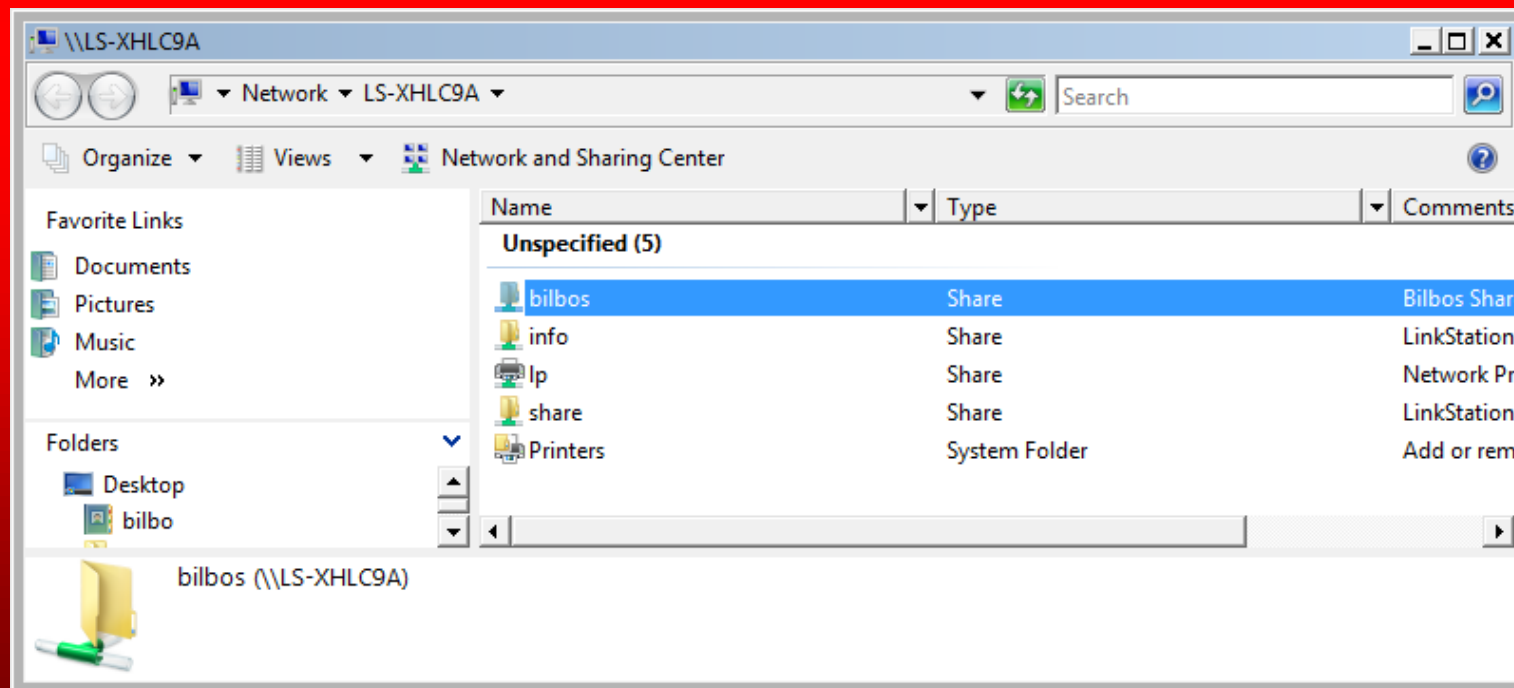

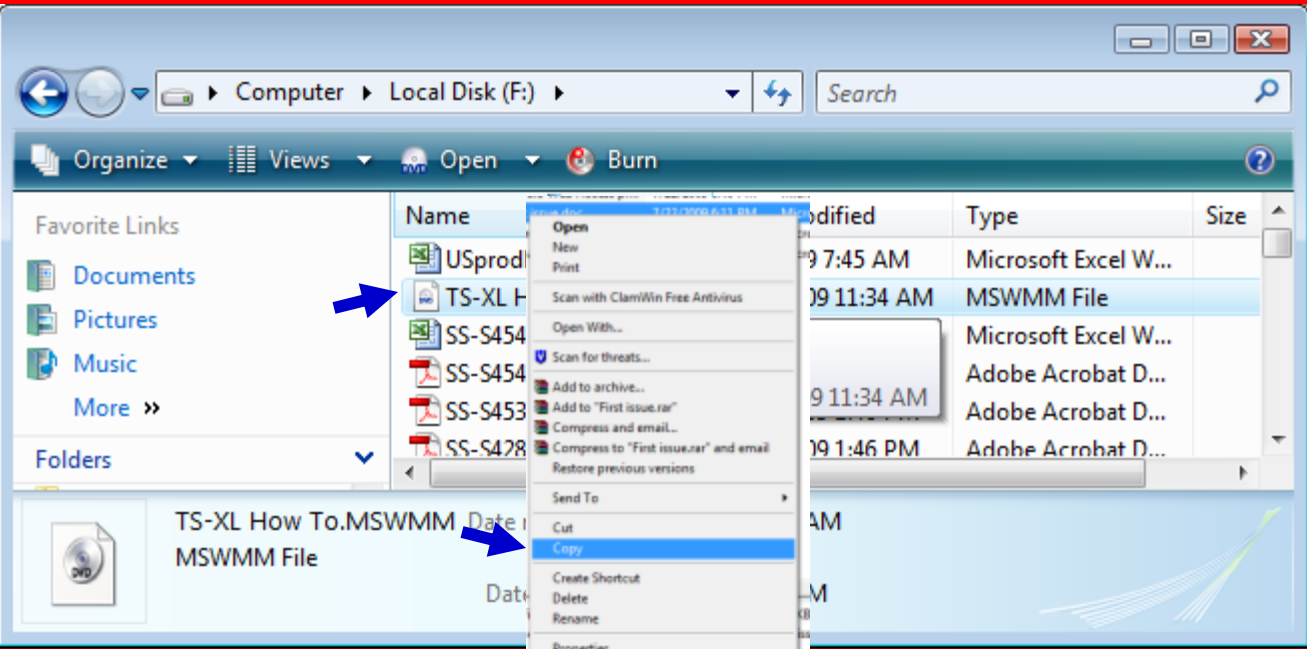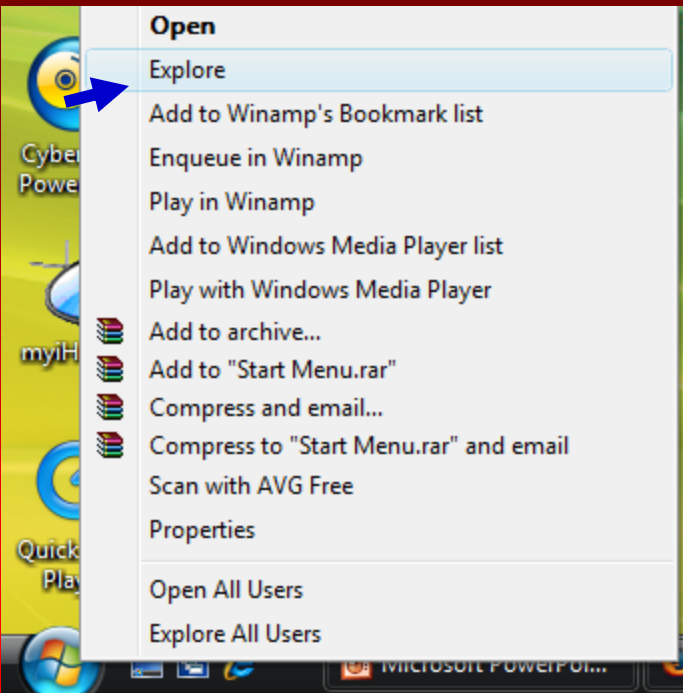2 .**Double mouse click on the LinkStation share created to share your files**
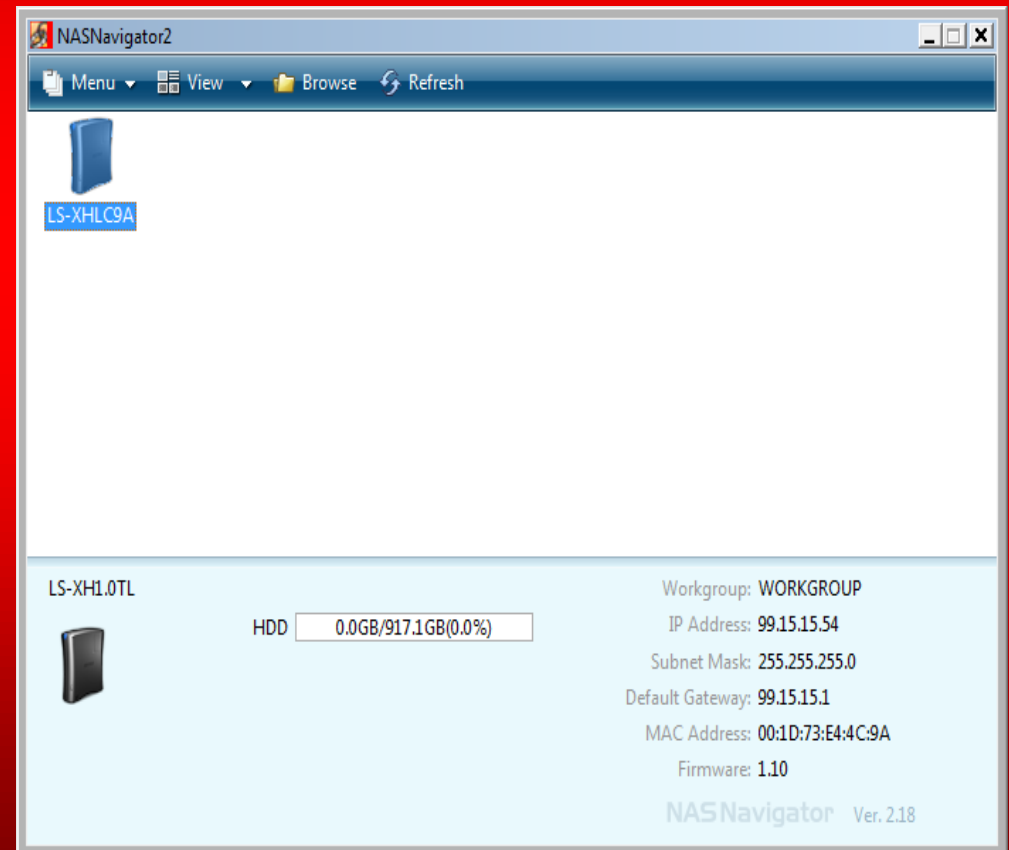
3. You will have to enter LinkStation User and Password you created

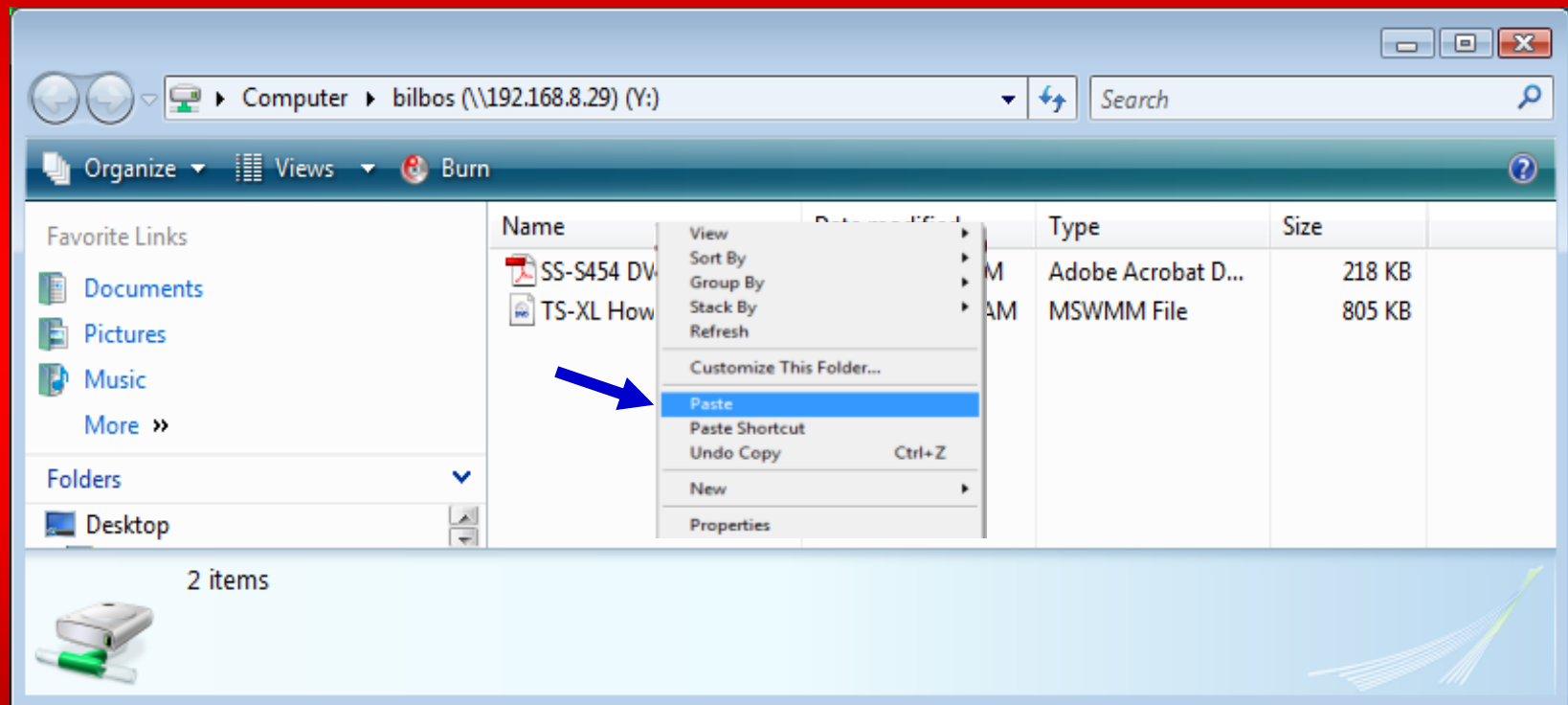**4. Double mouse click on the share you created on the LinkStation**

5. Locate files on local drive that you want to copy to share using MS explorer by Left click on Start and select "Explore"

Open

Explore

Add to Winamp's Bookmark list

Enqueue in Winamp

Play in Winamp

Add to Windows Media Player list

Play with Windows Media Player

Add to archive...

Add to "Start Menu.rar"

Compress and email...

Compress to "Start Menu.rar" and email

Scan with AVG Free

Properties

Open All Users

Explore All Users

6. Highlight the file you want to copy to your LinkStation share by right clicking on it and select "Copy" from the menu.

Computer ▶ Local Disk (F:) ▶

Organize ▾   Views ▾   Open ▾   Burn

Favorite Links

Documents

Pictures

Music

More »

Folders

Name

USprodl...

TS-XL H...

SS-S454

SS-S454

SS-S453

SS-S428

Open
New
Print

Scan with ClamWin Free Antivirus

Open With...

Scan for threats...

Add to archive...

Add to "First issue.rar"

Compress and email...

Compress to "First issue.rar" and email

Restore previous versions

Send To

Cut

Copy

Create Shortcut

Delete

Rename

Properties

Modified   Type   Size

9 7:45 AM   Microsoft Excel W...

9 11:34 AM   MSWMM File

Microsoft Excel W...

Adobe Acrobat D...

9 11:34 AM   Adobe Acrobat D...

9 1:46 PM   Adobe Acrobat D...

TS-XL How To.MSWMM

MSWMM File

7. Go to the LinkStation Share window, right click and select "Paste" from the menu. Your selected file will be copied to your new share.

# Copying Files From Local Computer to Web Access Share (Windows)

1. Map drive or use the RUN function to bring up the share (or the Start Search address bar in Vista)
2. You will have to enter LinkStation User and Password
3. Locate files on local drive that you want to copy to share using MS explorer
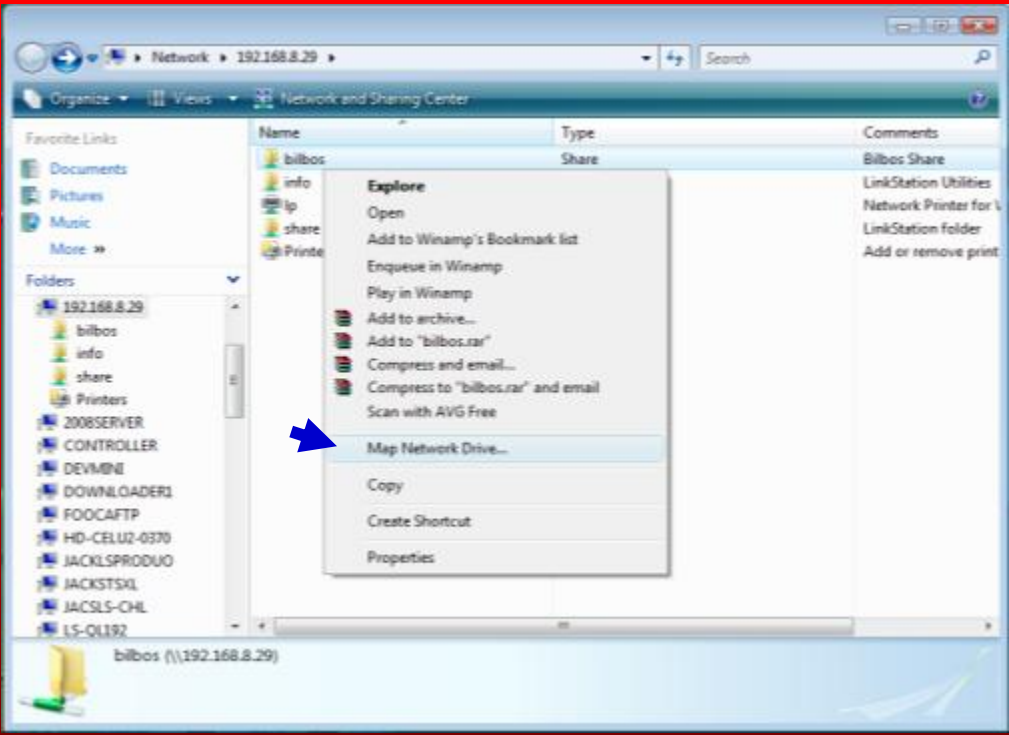4. Highlight the files and drag them to the mapped share

1. Click on "Start" > "Run" or type in the LinkStation IP address in the "Start Search" bar and then "enter"
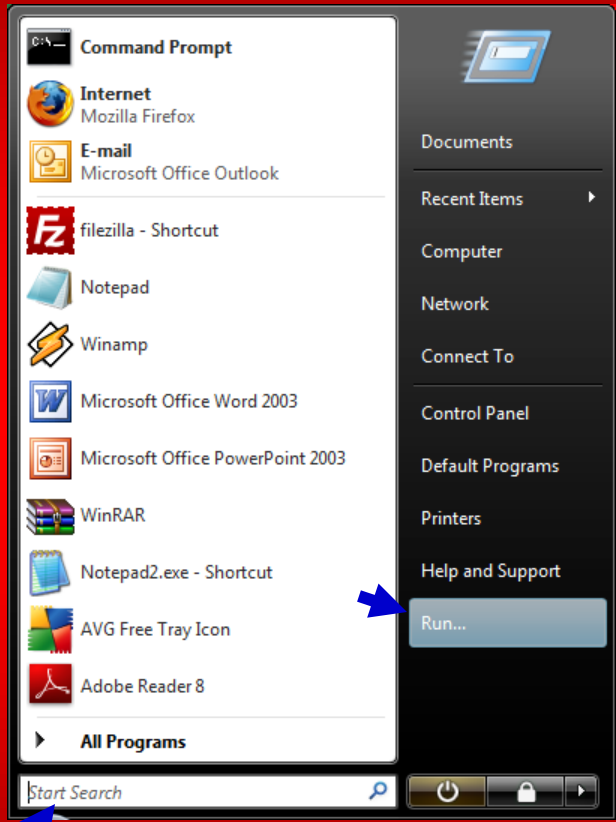
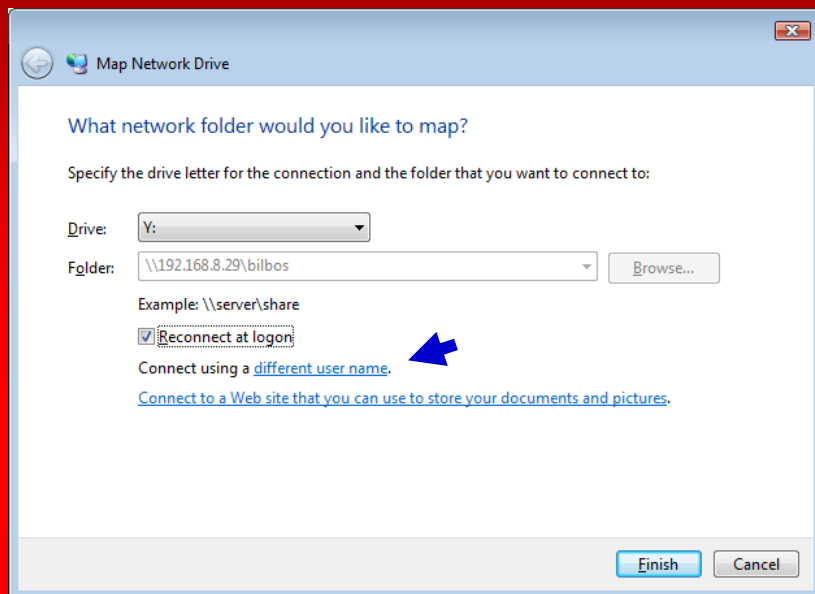**2. Type in "\\LinkStation IP address", and click "OK"**
Note: Back Slashes must be used before the LinkStation IP address.
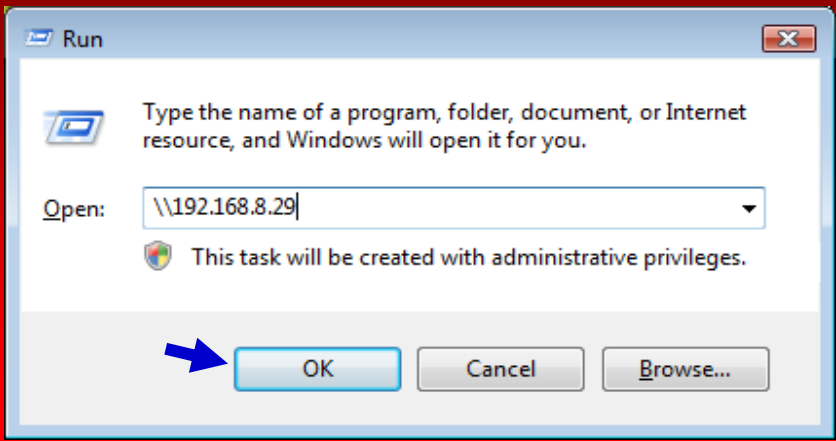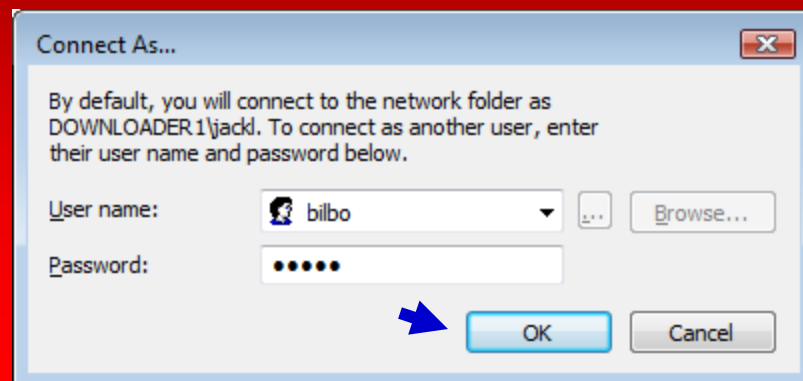

3. Right click on Web Access share, then click on "Map Network Drive…

4. Click "different user name"

5. Enter User name and Password that was created on LinkStation and click "OK"

6. Click Finish at the bottom of the screen to complete Map Drive process.
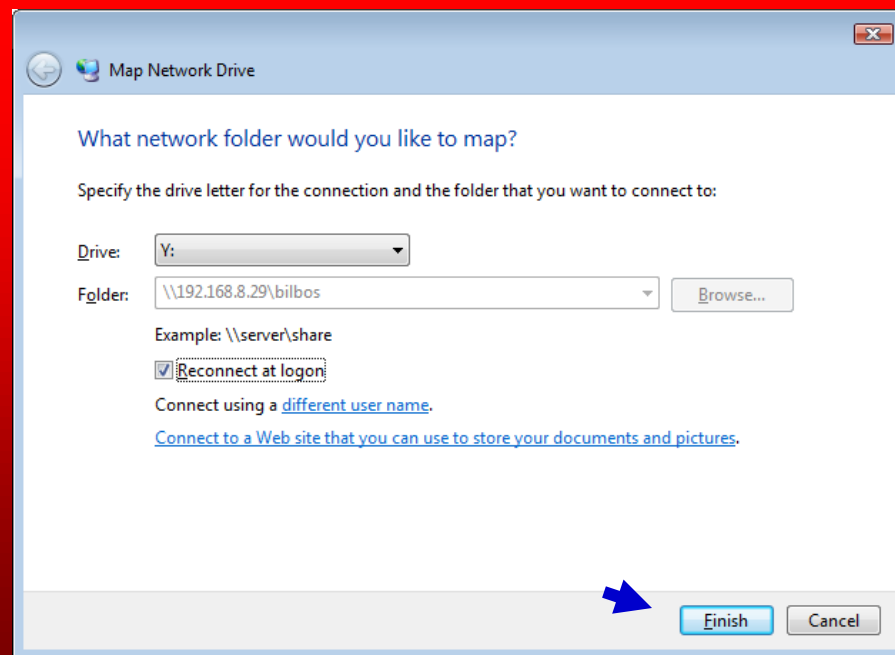
7. The Share window will pop up on your screen.

8. Left click on Start and select "Explore"

Open

Explore

Add to Winamp's Bookmark list

Enqueue in Winamp

Play in Winamp

Add to Windows Media Player list

Play with Windows Media Player

Add to archive...

Add to "Start Menu.rar"

Compress and email...

Compress to "Start Menu.rar" and email

Scan with AVG Free

Properties

Open All Users

Explore All Users
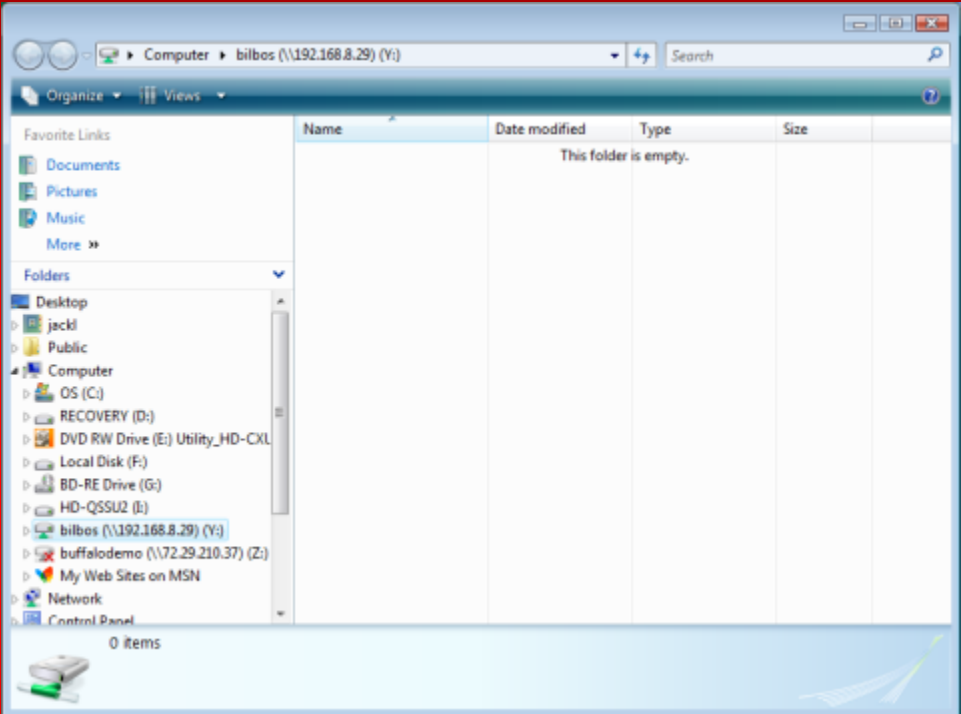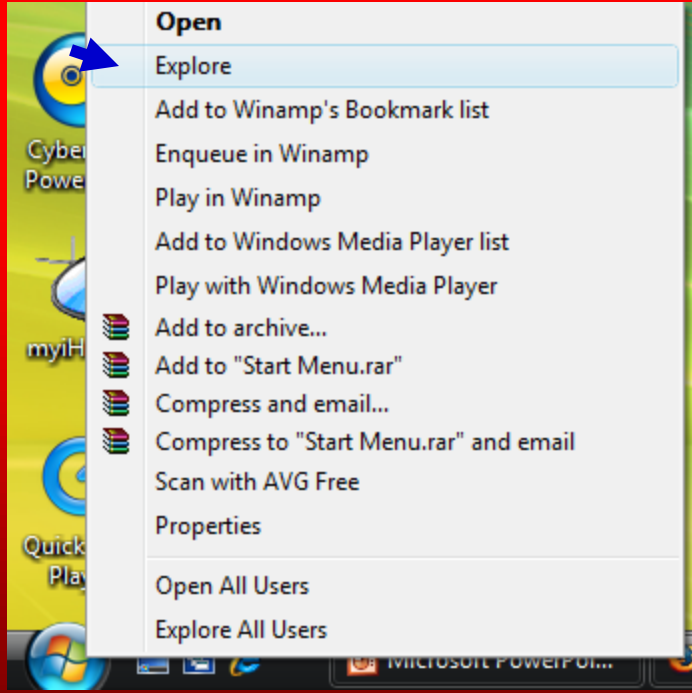
9. Highlight the file you want to copy to your LinkStation share by right clicking on it and select "Copy" from the menu.

10. Go to the LinkStation Share window, right click and select "Paste" from the menu. Your selected file will be copied to your new share.
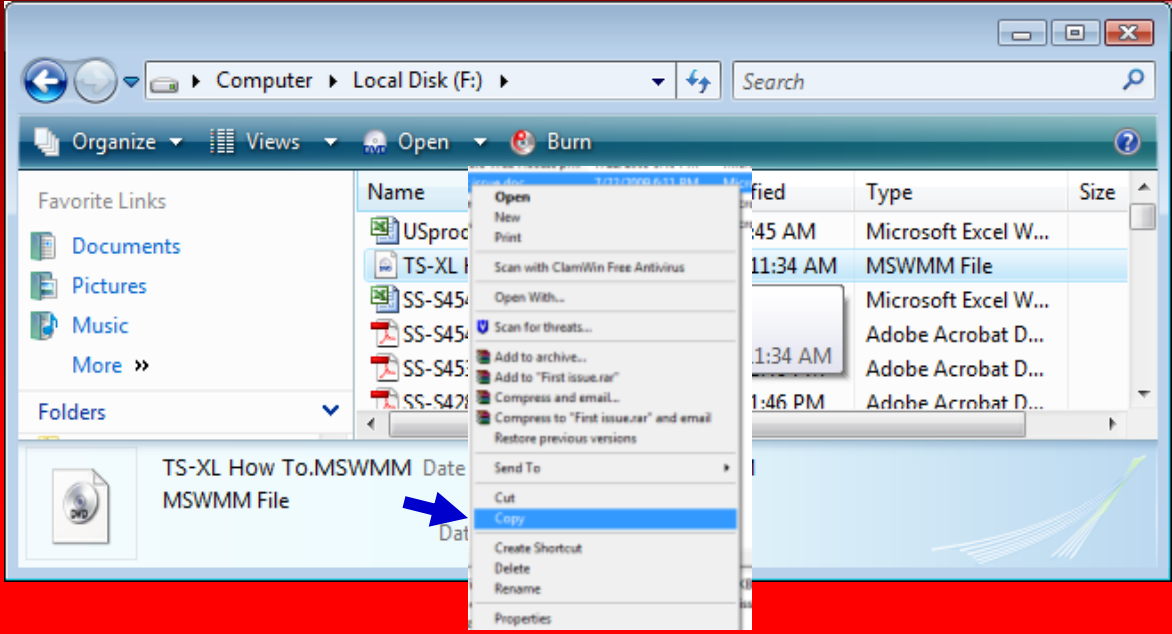
Copying Files From Local Computer to http://www.buffalonas.com
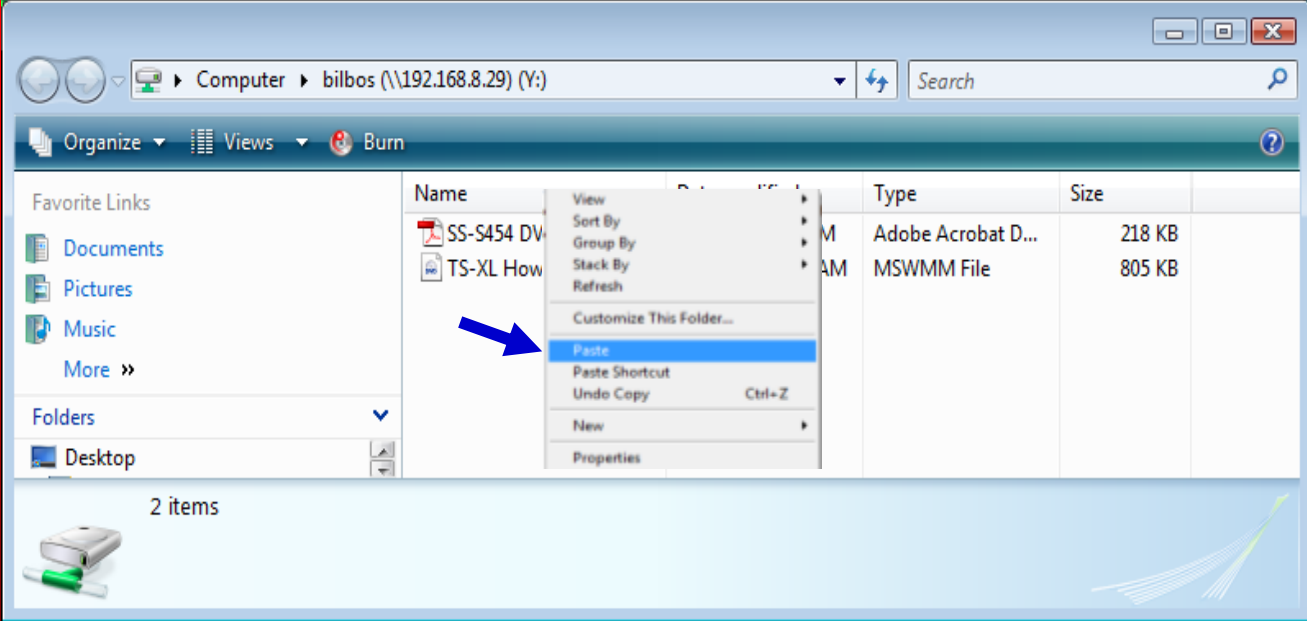
1. **Opening *http://www.buffalonas.com* using internet browser**
2. **Logon to Web Access share**
3. **Upload files using internet browser**
4. **Download files using internet browser**

1. To access the share, open your favorite web browser, IE in this case, and enter _http://www.buffalonas.com_, Enter your BuffaloNAS name you created on slide 11, in the box, then click on Connect

BUFFALO™
Web Access

Enter your BuffaloNas Name

lsxlthome

Connect

Survey   Intro   FAQ   QuickStart

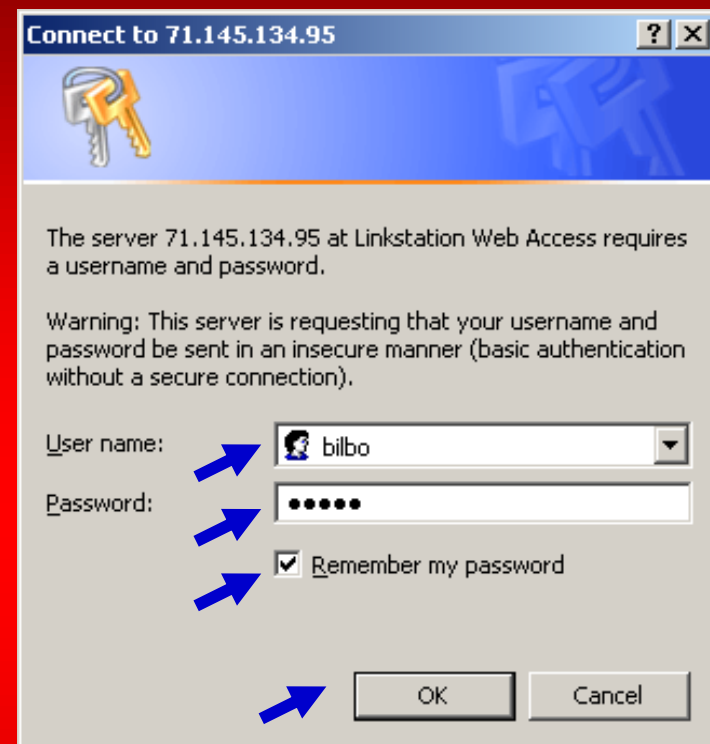**Connect to 71.145.134.95**

The server 71.145.134.95 at Linkstation Web Access requires a username and password.

Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).

User name: bilbo

Password: •••••

☑ Remember my password

OK   Cancel

2. You will be prompted for a User and Password. Enter user and password to and click OK. You can have the screen save your information for later use.

3. The data in your share will be displayed. Click on Upload on the bottom of the screen to add content to your share. "Upload" will only appear if the User has "Read/Write" permissions. It will not be displayed if User only has "Read" permissions.

Logged in: bilbo   **WebAccess**

bilbos
  trashbox

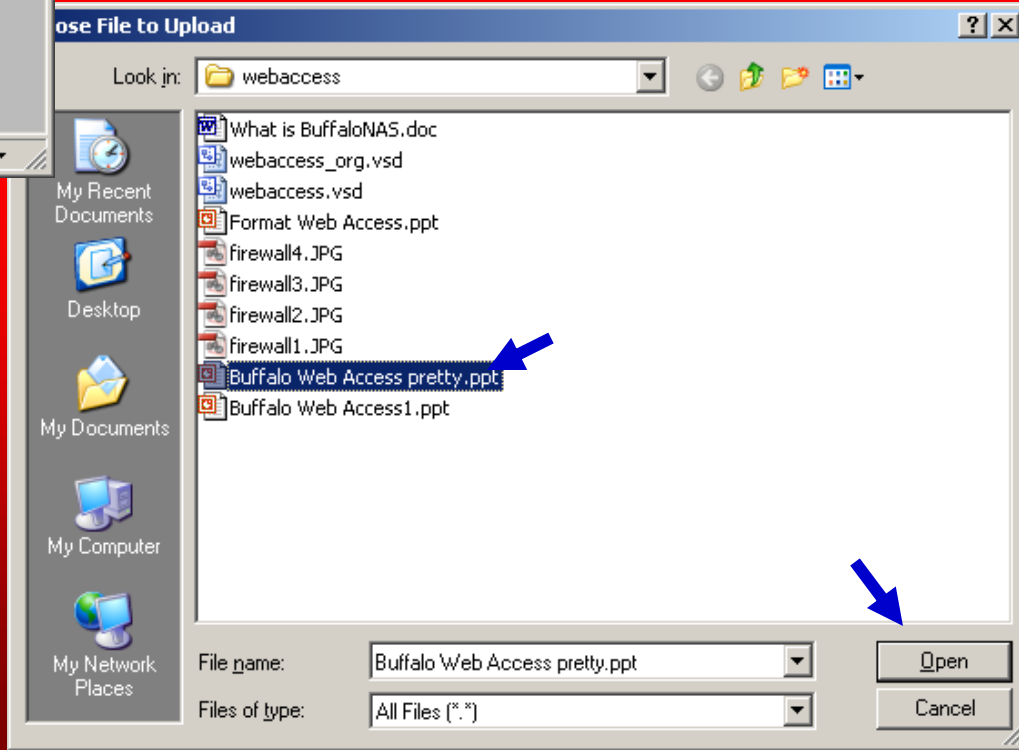| Name	Type	Size
trashbox open rename delete	Folder	
SS-S454 DVSM-P58U2_B Refurbish work instruction.pdf open rename delete	File	218K
TS-XL How To.MSWMM open rename delete	File	805K

Upload   Create Folder   version 2.2

Upload file - Windows Internet Explorer

http://71.145.134.95:9000/login/cgi?action=uploadForm&upload_dir=bilbos:/

Logged in: bilbo

Upload file [_____] Browse...

Upload   Cancel

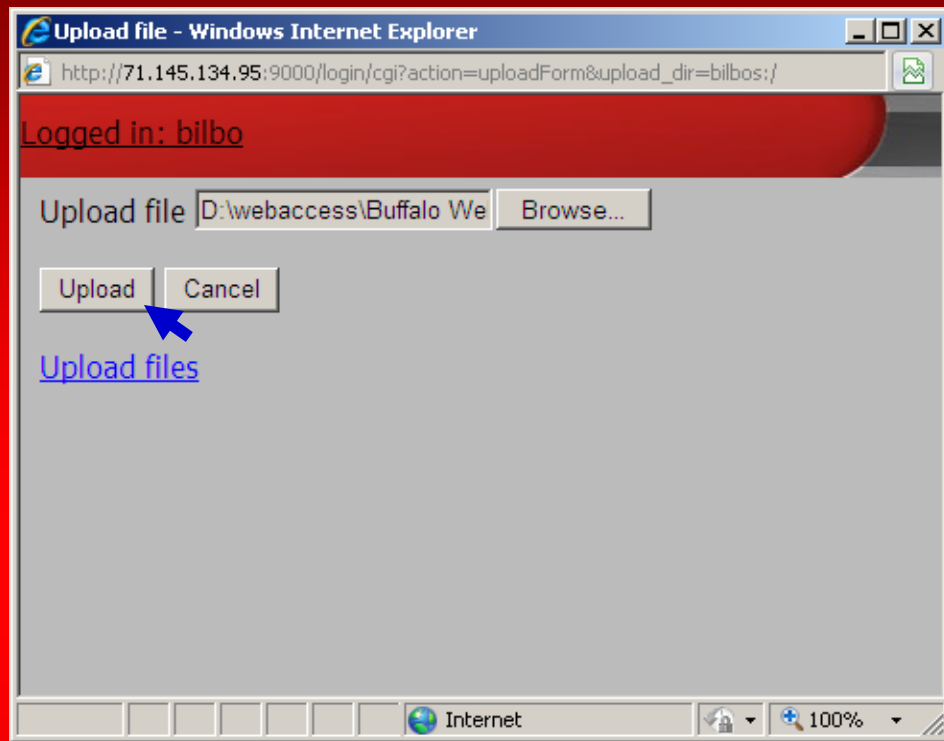Upload files

Done   Internet   100%
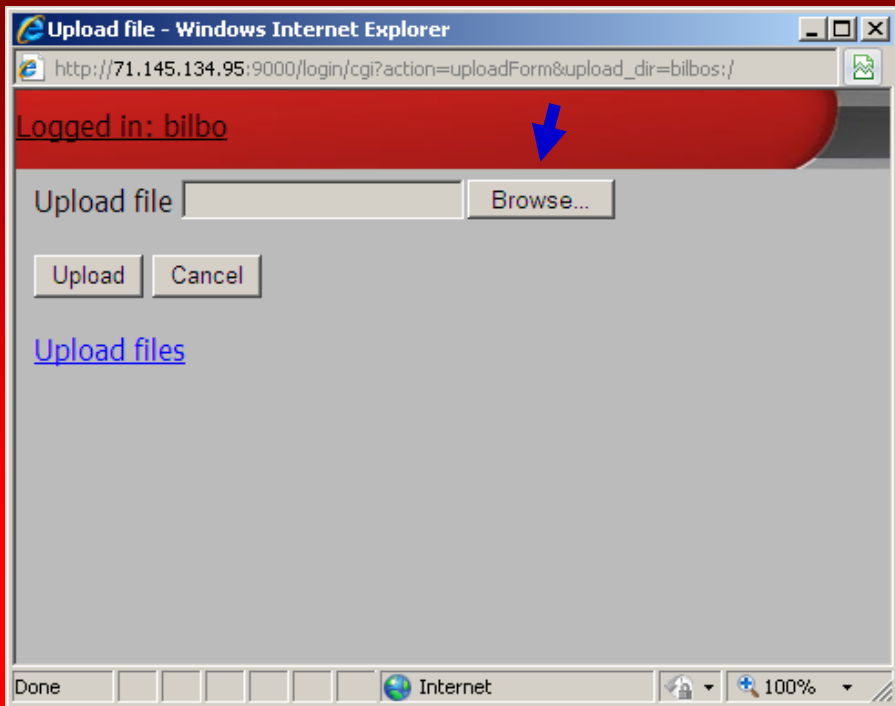
4. This screen will appear, click Browse… button to continue.
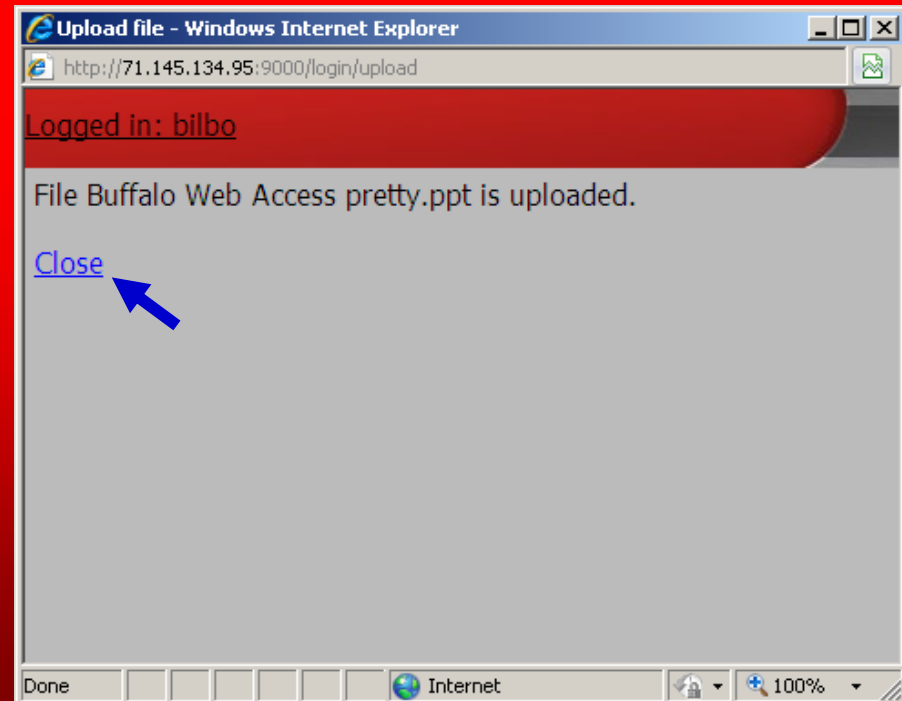
5. This screen will appear, change to the directory the file is located on your PC, click on the file you want to upload and then click the Open button.

...ose File to Upload

Look in: webaccess

My Recent Documents

Desktop

My Documents

My Computer

My Network Places

- What is BuffaloNAS.doc
- webaccess_org.vsd
- webaccess.vsd
- Format Web Access.ppt
- firewall4.JPG
- firewall3.JPG
- firewall2.JPG
- firewall1.JPG
- Buffalo Web Access pretty.ppt
- Buffalo Web Access1.ppt

File name: Buffalo Web Access pretty.ppt

Files of type: All Files (*.*)

Open

Cancel

Upload file - Windows Internet Explorer

http://71.145.134.95:9000/login/cgi?action=uploadForm&upload_dir=bilbos:/

Logged in: bilbo

Upload file D:\webaccess\Buffalo We   Browse...

Upload   Cancel

Upload files

Internet   100%

6. The selected file will be displayed in the Upload File box. Click Upload button to continue

Upload file - Windows Internet Explorer

http://71.145.134.95:9000/login/upload

Logged in: bilbo

File Buffalo Web Access pretty.ppt is uploaded.
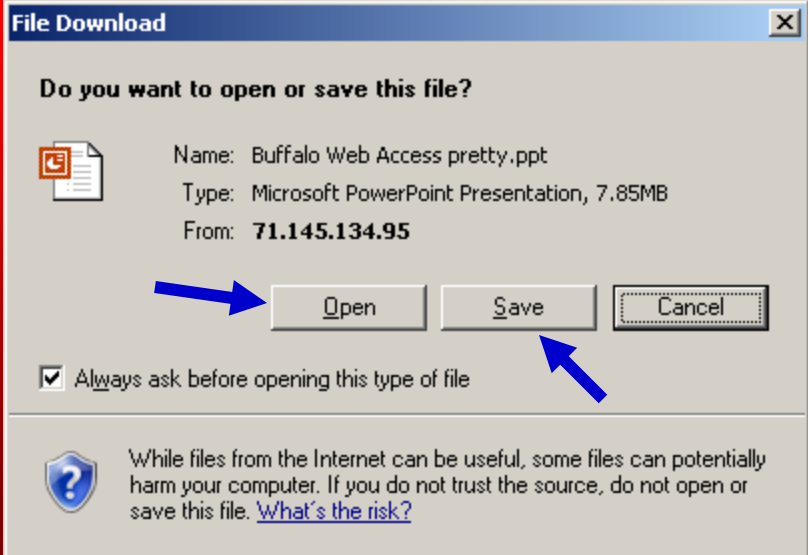
Close

Done   Internet   100%

7. The screen will indicate that the file is uploaded. Click Close to continue.

8. Clicking on individual files will give you other options, depending on the file type.
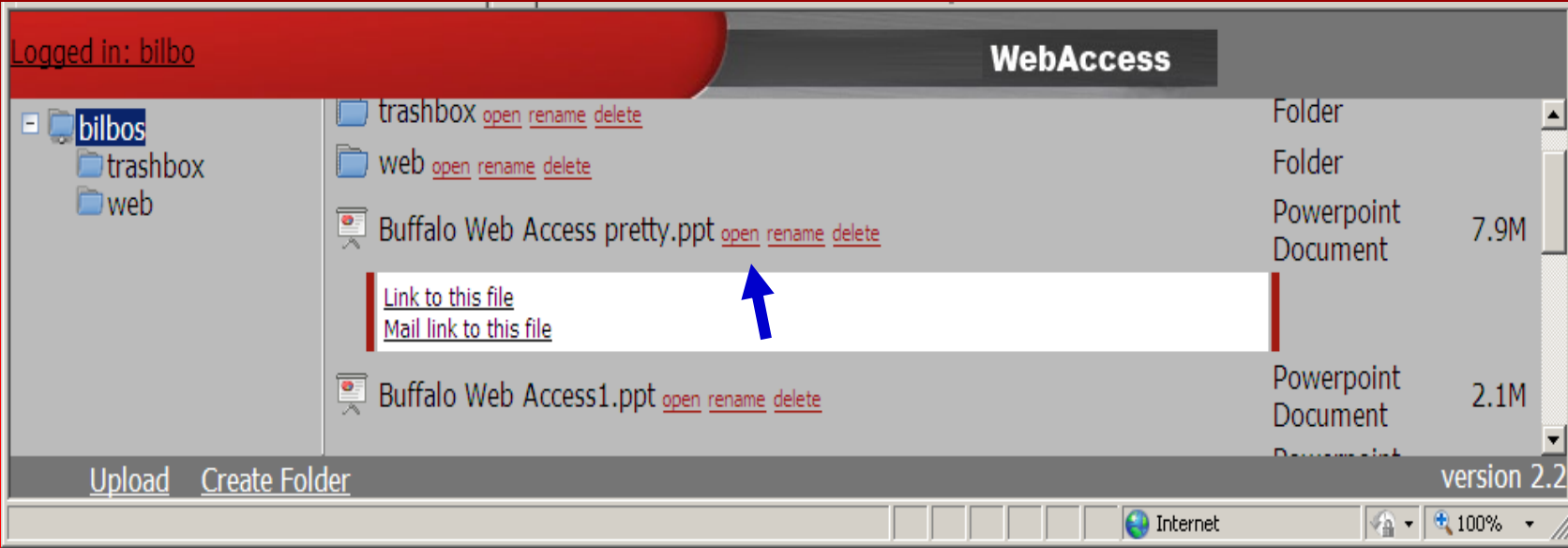
9. By clicking on Open, you will able to Open or Save the file.

10. You can either open the file or Save the file. Click OK when you have decided.

iPhone 3G, iPhone, iPod

To access http://www.buffalonas.com with iPhone 3G

1. Tap the Safari Application from "Home" screen, and connect up to the Internet.

2. The address bar will be displayed on the screen.

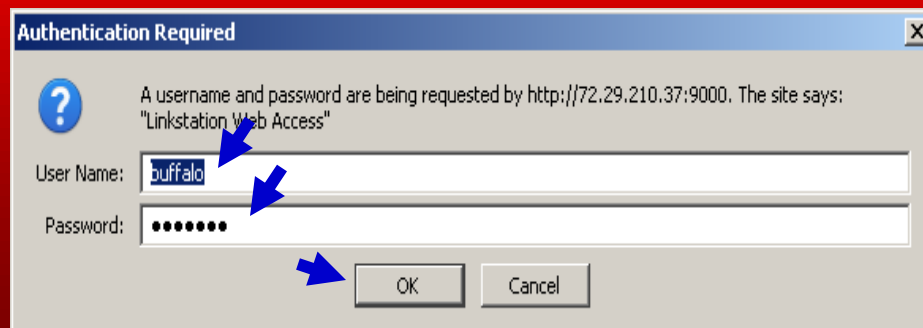**3. Enter into the address bar as http://www.buffalonas.com, and select Go.**

· Files that are DRM protected, such as music files cannot be reproduced by using this function.

·Files saved to a Web access folder where restricted access is set up can only be accessed using the ID and password setup for that folder.

- Files can not be saved to the iPhone 3G, iPhone, or iPod Touch using the download feature.

·The reproduction interchangeability of the animation file and the music file depends on the specification of Safari and QuickTime installed in iPhone 3G/iPhone/iPod touch.

·Please convert it into the animation form that can be reproduced with iPhone 3G/iPhone/iPod touch in the commercial software etc. to make the animation file that can be reproduced with iPhone.

·Change/deletion of up-loading/file name of the file is not supported..

·iPhone is a trademark of the Apple Inc..

Quick Test for your client

(If you have problems with any of the following steps, please check your Router, Computer firewall, or internet settings.)

1. Enter *http://www.buffalonas.com* **into your browser**

2. Enter Buffalonas Name buffwebacc **click Connect button**

BUFFALO.
Web Access

Enter your BuffaloNas Name

buffwebacc

Connect

Survey   Intro   FAQ   QuickStart

Authentication Required

A username and password are being requested by http://72.29.210.37:9000. The site says: "Linkstation Web Access"

User Name: buffalo

Password: ●●●●●●●

OK   Cancel

3. Enter buffalo for the user and Buffal0 for the password when prompted and click OK.

Quick Test for your client

(If you have problems with any of the following steps, please check your Router, Computer firewall, or internet settings.)

4. You should get the screen below.

**Congratulations** – Your Client is correctly configured

If you do not receive this screen, please check your browser, router or Computer Firewall settings
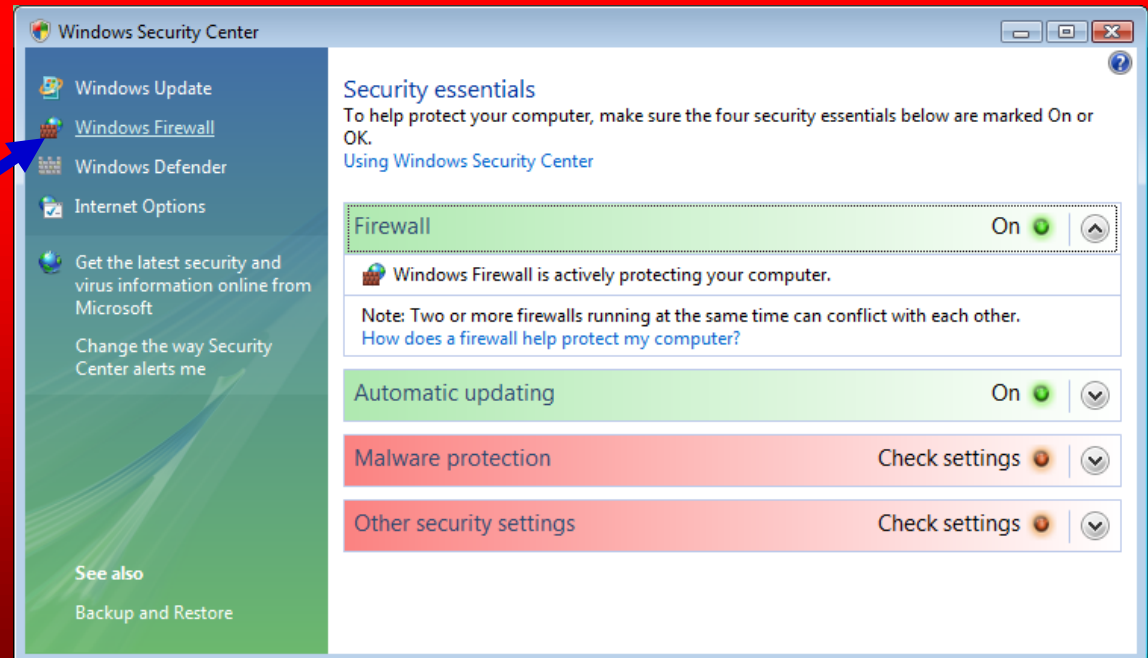
Questions and Trouble Shooting Web Access Problems
(Client)

Problem – Can not access the Web Access Folder from internal LAN network.

Solution – Turn off Windows Firewall (Vista)
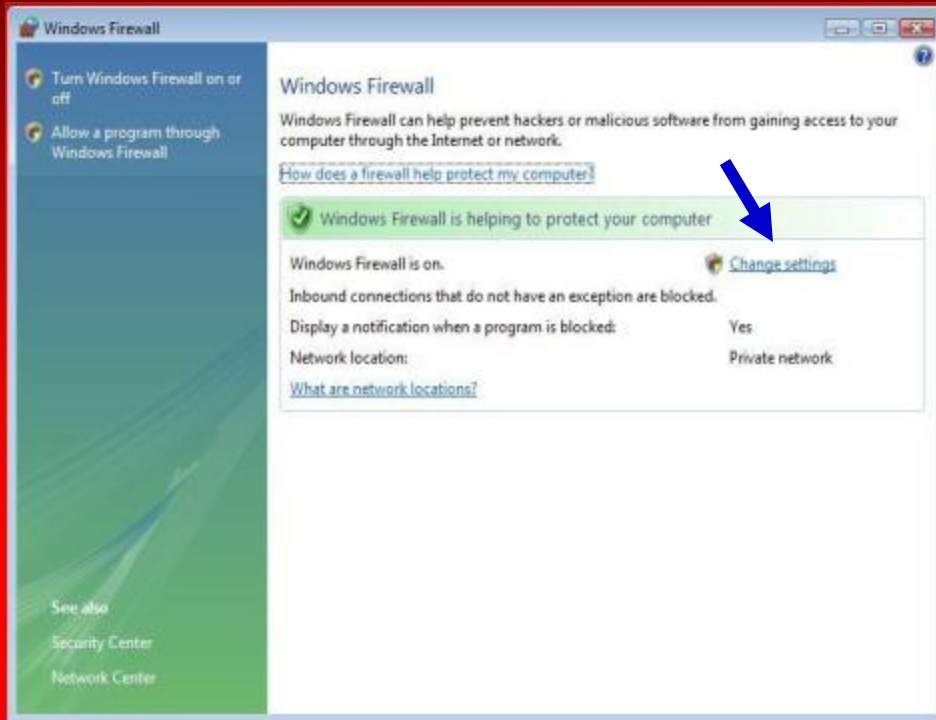1. **Right click on the Firewall Shield Icon on task bar, then on "Open Security Center".**
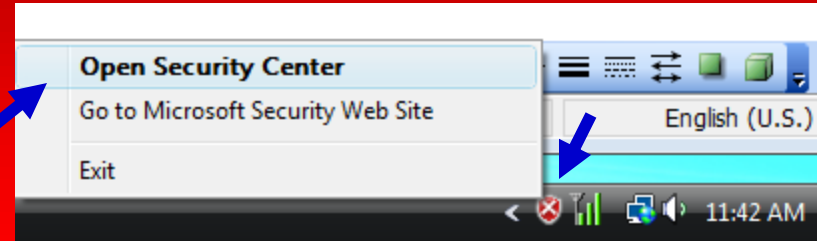
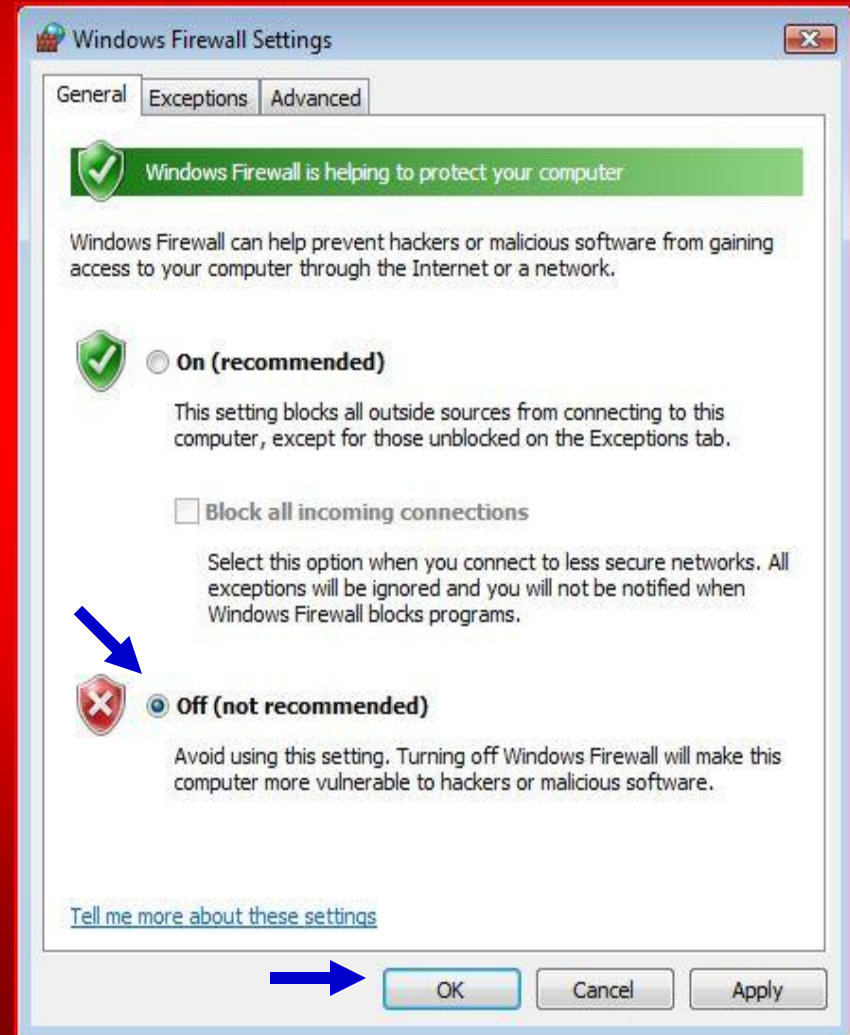**2. Right click "Open Security Center".**

3. Click on Windows Firewall

4. Click on "Change Settings"

5. Click on "Off (not recommended)

6. Click the "OK" button

Questions and Trouble Shooting Web Access Problems
(Client)

Problem – I can display the web access screen from the local network, but cannot access from the internet. Folders and files are not displayed or cannot open any file.

Solution 1 – Check router settings to make sure that the port that is displayed on your LinkStation is opened in your router.

1. **Type in the IP address of your LinkStation into browser and logon.**
2. **Click on "Extensions" tab, then the "Web Access" tab.**
3. **Write down the "External Port: 33401", in this example.**
4. **Log onto your router and make sure that the port in LinkStation is open in your router.**

WebAccess Services

- ○ Enable
- ○ Disable
- ☐ HTTPS/SSL Encryption
- ☑ Use BuffaloNAS.com

BuffaloNAS.com Name: lsxlthome

BuffaloNAS.com Key: password

DNS Hostname:

☐ Auto-Configure Firewall (UPnP)

External Port: 9000
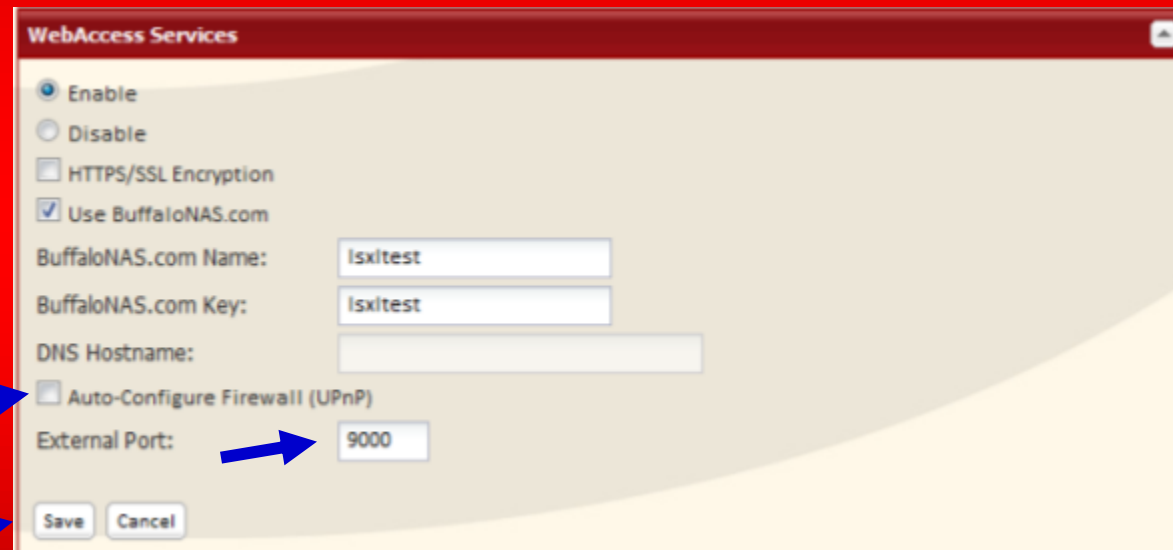
[Modify Settings] [Open WebAccess]

NOTE – Due to the many different router types, please follow manufacturers instructions on how to open router ports so that data can be transferred from the WAN to your local LAN, and visa versa.

Questions and Trouble Shooting Web Access Problems
(Client)

Problem – I can display the web access screen from the local network, but cannot access from the internet. Folders and files are not displayed or cannot open any file.

Solution 2 – Statically set the Web Access port on your LinkStation to 9000.

1. **Type in the IP address of your LinkStation into browser and logon.**
2. **Click on "Extensions" tab, then the "Web Access" tab.**
3. **Click on "Modify Settings" at the bottom of the screen.**
4. **Uncheck "Auto-Configure Firewall (UPnP)" box**
5. **Type "9000" into the "External Port:" box**
6. **Click the "Save" button**

WebAccess Services

- ⦿ Enable
- ○ Disable
- ☐ HTTPS/SSL Encryption
- ☑ Use BuffaloNAS.com

BuffaloNAS.com Name: lsxltest
BuffaloNAS.com Key: lsxltest
DNS Hostname:
☐ Auto-Configure Firewall (UPnP)
External Port: 9000

[Save] [Cancel]

The next page shows an example of how to set up port forwarding on a Buffalo router. Your router may be different. Please consult your router manufacturer for details about that router.

Setting up Router port forwarding

Example of Buffalo WHR-HP-G300NH –
1. **Open web browser and enter your router IP address.**
2. **Enter ID and Password**
3. **Click on "OK" button**

4. Click on the "LAN Config" tab
5. Click on "Port Forwarding" tab
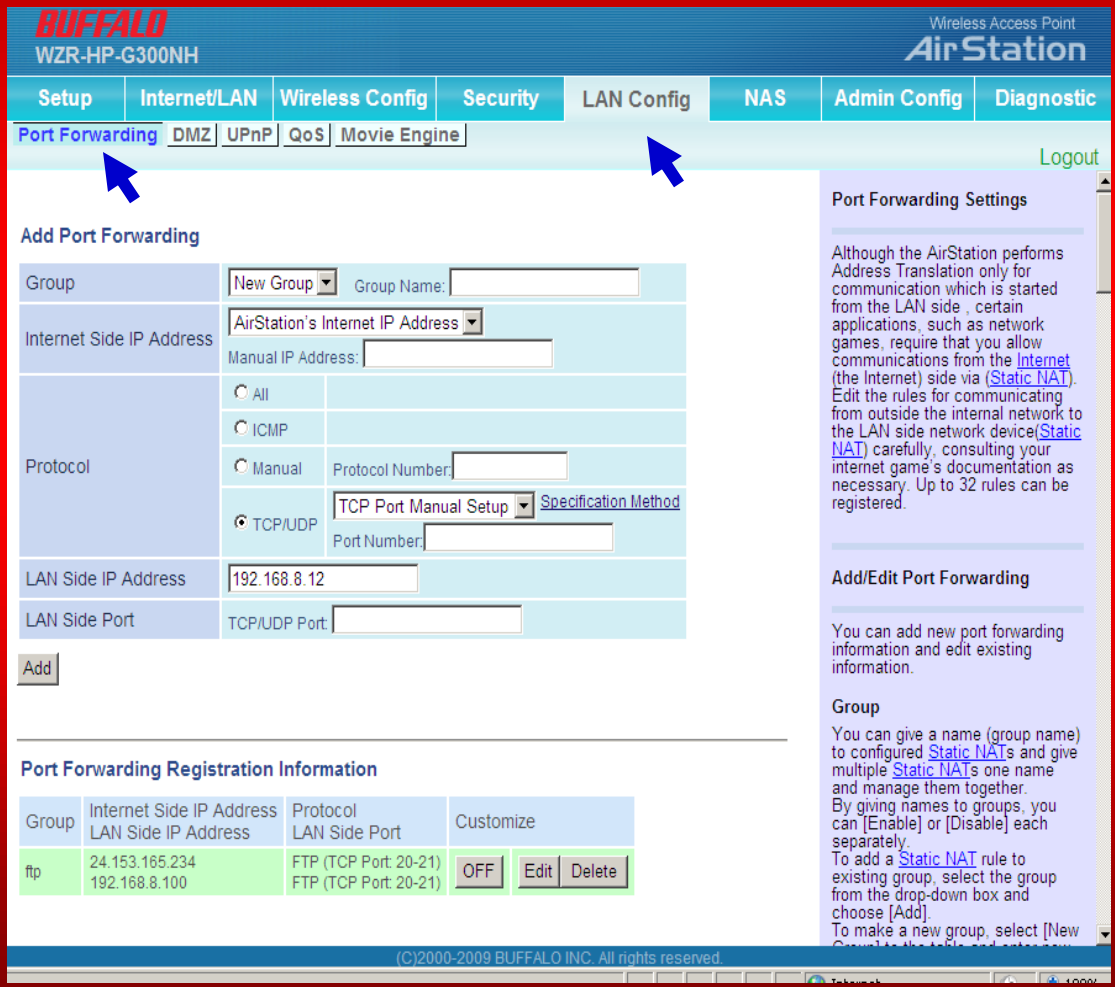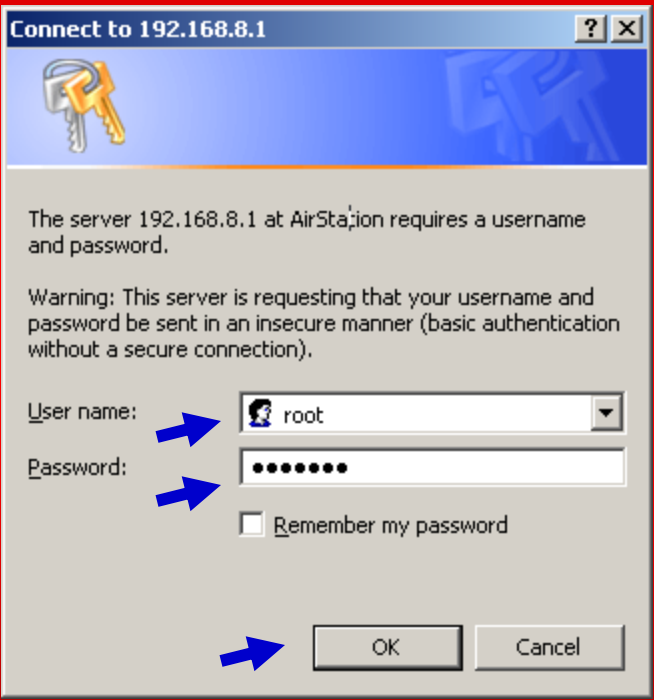
Setting up Router port forwarding

6. Click on the "TCP/UDP" radio button

7. Type in "9000" in the "Port Number" Box

8. Type in LinkStation IP address in the "Lan Side IP Address" Box

9. Type in "9000" in the "Lan Side Port" " TCP/UDP Port" Box

10. Click "Add" button

11. Changes will be displayed with new settings.

Questions and Trouble Shooting Web Access Problems (Client)

Problem – I can display the web access screen from the local network, but there is not an Upload option to chose.

Solution - You must login as a local user registered to LinkStation that has "Read and Write" permissions on the Web Access Screen. You cannot login with "admin" or "guest" which are default LinkStation ID's to log onto this model to upload files, enter "user id" in the user name field and the password you have set for the "user" in the LinkStation if you have set the shared folder's web access restrictions as [Use Inherited Folder Permissions],

You cannot upload files if you login as a user who has been set as a Read only user. The below screen shows that the Upload option does not appear on the screen if the logged in user has just "Read Only" access permissions.

Logged in: obama	**WebAccess**		
bilbos	Name	Type	Size
trashbox	trashbox open	Folder	
	SS-S428v1.0_BRHC-6316U2 Refurbish test instruction.pdf open	File	289K
	SS-S454 DVSM-P58U2_B Refurbish work instruction.pdf open	File	218K
	TS-XL How To.MSWMM open	File	805K

1. **To login to Web Access Screen as another user.**
2. **Exit web browser, and clear browser cache.**
3. **Click on Tools on the browser tool bar .**
4. **Click on Internet Options.**
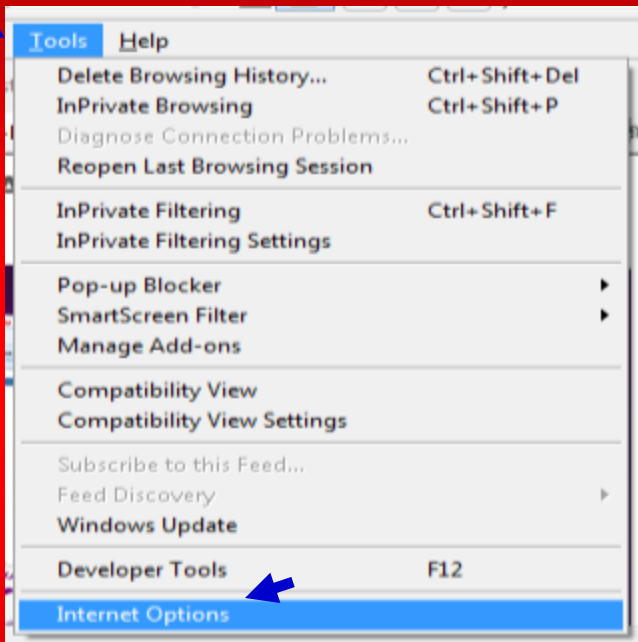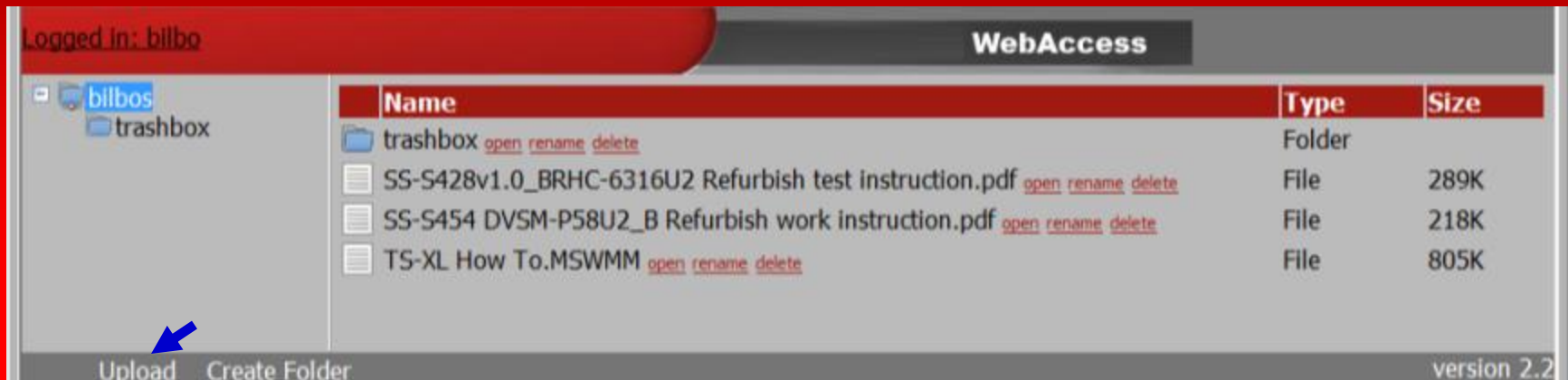
5. **Click on Delete… under Browsing History.**
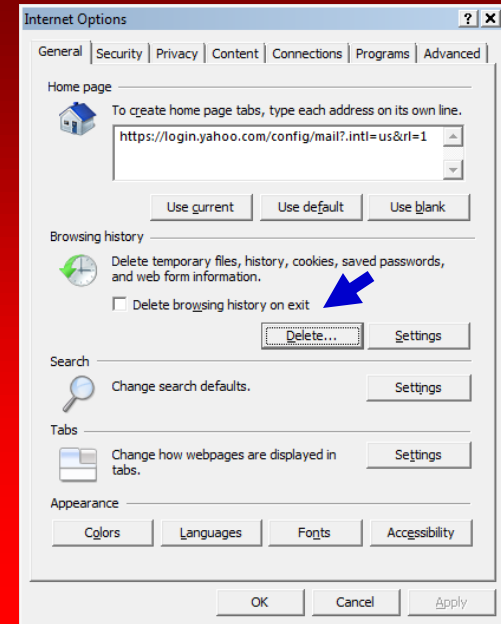
6. **Select appropriate boxes, making sure you select "Passwords"**
7. **Click the Delete button**
8. **Click the "OK" button on the next screen**
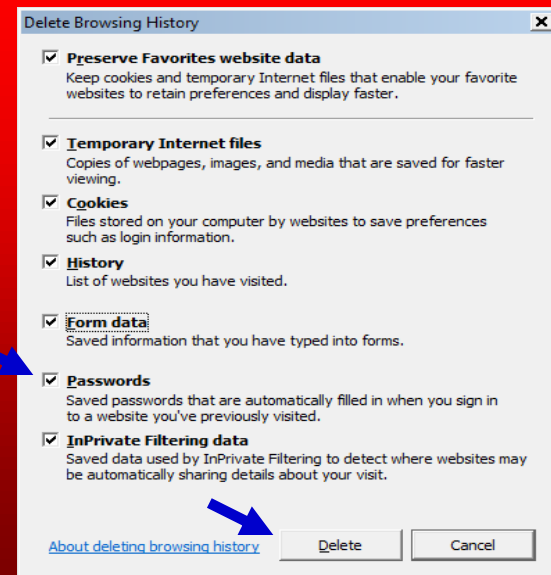
1. **Go to** *http://www.buffalonas.com*
2. **Enter your BuffaloNAS name and click Login.**
3. **Enter the User and Password of the user you set up with Read/Write Permissions.**
4. **Click OK. Now you will see the Upload feature at the bottom of the screen.**

Setting up *http://www.buffalonas.com* as a trusted site in Internet Explorer
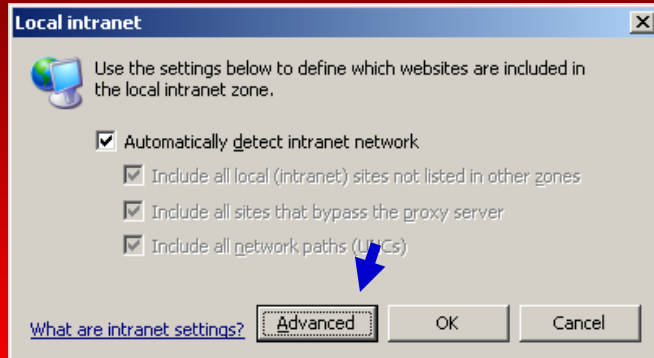
1. **Open Web Browser, in this case IE 7.**
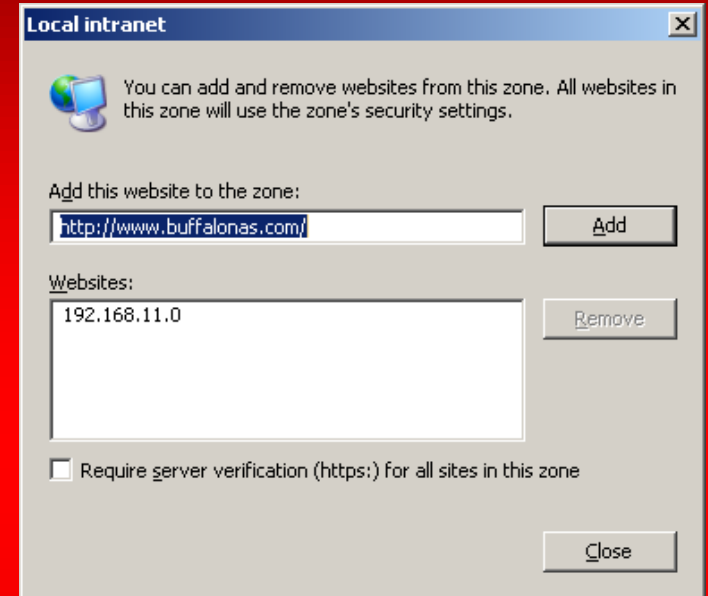2. **Click on "Tools"**
3. **Then Click on "Internet Options"**

4. Then Click on the "Security" tab.
5. Then Click on "Local Internet"
6. Then Click on the "Sites" button

Setting up *http://www.buffalonas.com* as a trusted site in Internet Explorer

7. Then Click on the "Advanced" Button.

Local intranet

Use the settings below to define which websites are included in the local intranet zone.

☑ Automatically detect intranet network

　☑ Include all local (intranet) sites not listed in other zones
　☑ Include all sites that bypass the proxy server
　☑ Include all network paths (UNCs)

What are intranet settings?　[Advanced]　[OK]　[Cancel]

8. Type in *http://www.buffalonas.com* and click "Add"

Local intranet

You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.

Add this website to the zone:

http://www.buffalonas.com/　[Add]

Websites:

192.168.11.0

☐ Require server verification (https:) for all sites in this zone

[Close]

9. You will see the new entry in the Website: box. Click "Close"

Local intranet

You can add and remove websites from this zone. All websites in this zone will use the zone's security settings.

Add this website to the zone:

[ ]　[Add]

Websites:

192.168.11.0
http://www.buffalonas.com

[Remove]

☐ Require server verification (https:) for all sites in this zone
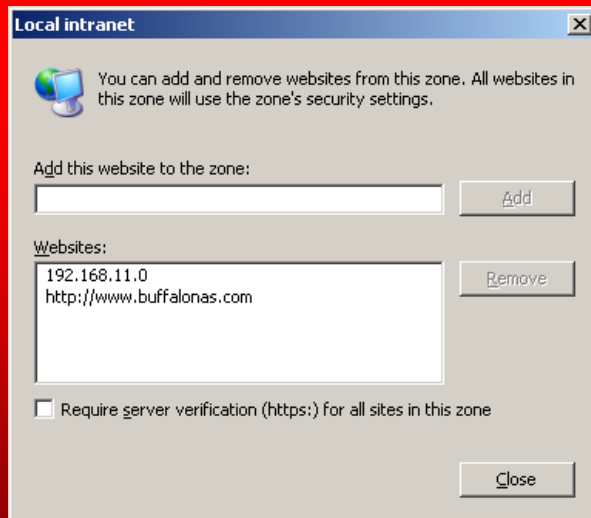
[Close]

10. Click "OK" to close the "Internet Options" Panel

Lower Internet Explorer Security

Problem – I can display the web access screen from the local network, but cannot access from the internet
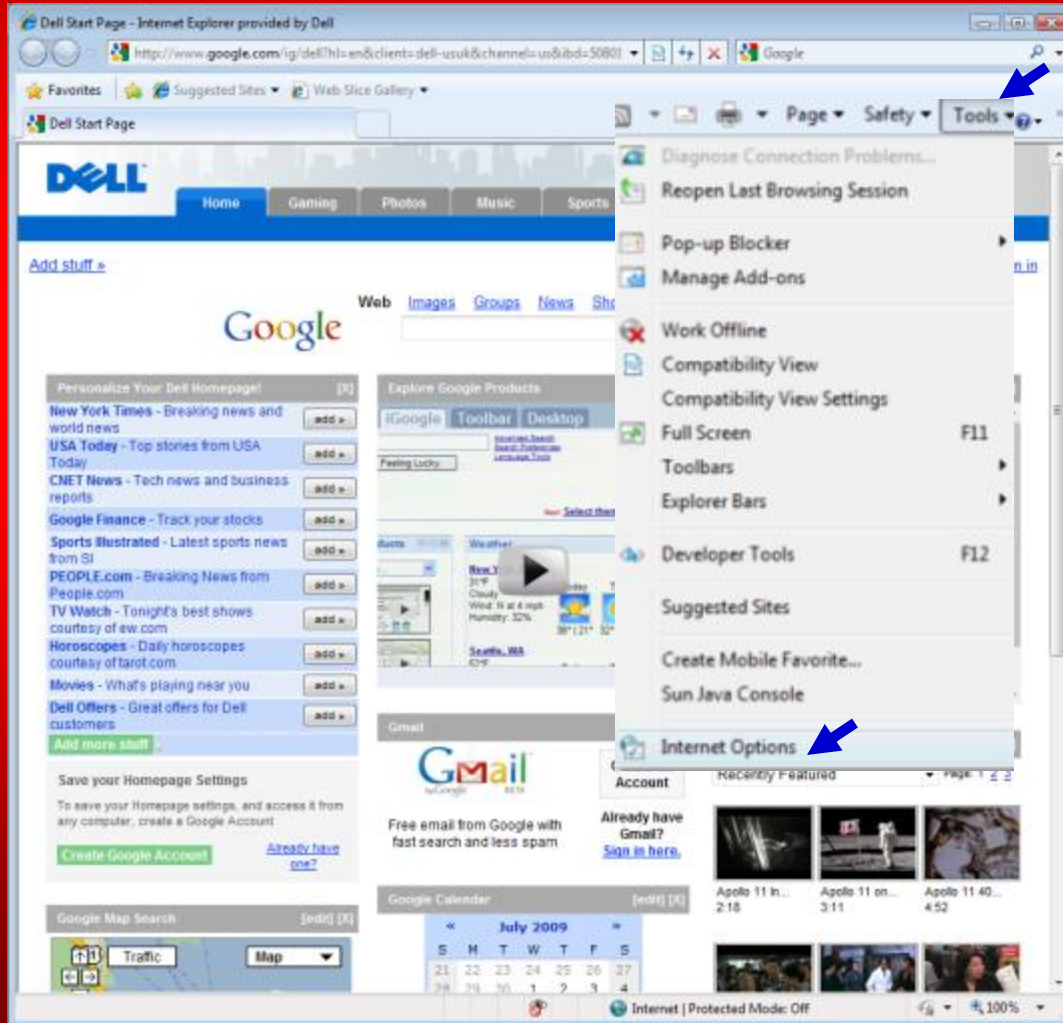
Solution - You may be able to access to this service by degrading your browser's security. Please consult your browser's developer or vender for the security settings.

1. **Open Web Browser, in this case IE 7.**
2. **Click on "Tools"**
3. **Then Click on "Internet Options"**

Lower Internet Explorer Security

4. **Click on the "Security" Tab**
5. **Click on the "Internet" Icon**
6. **Click "Customer level…" button**
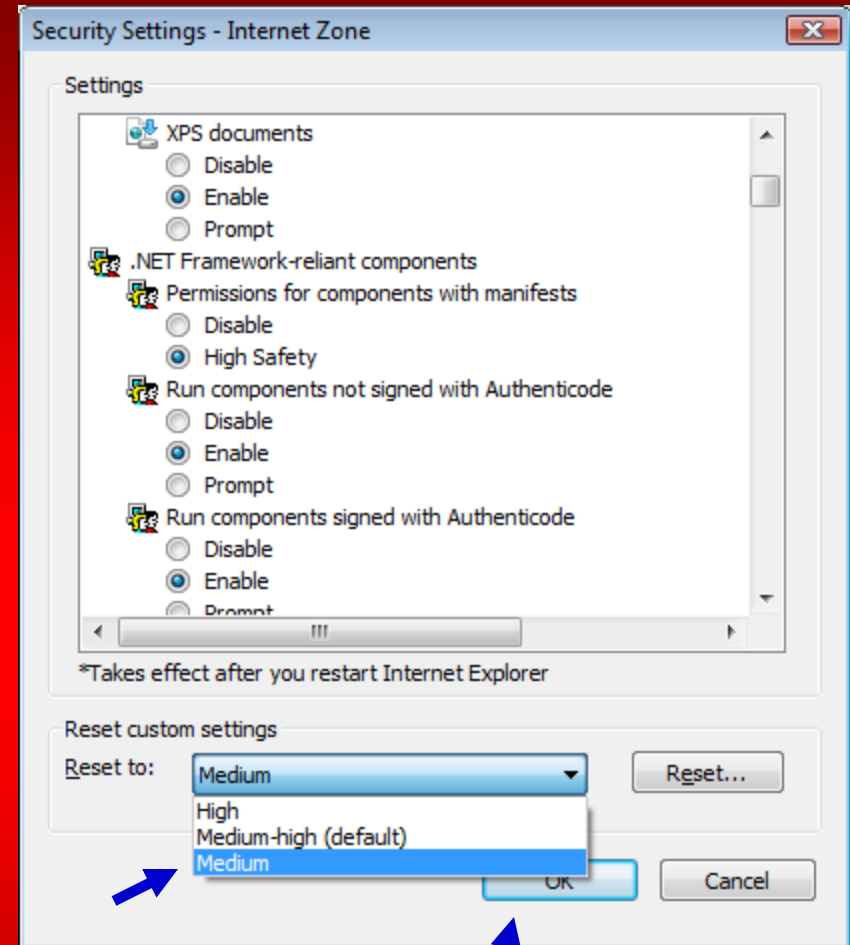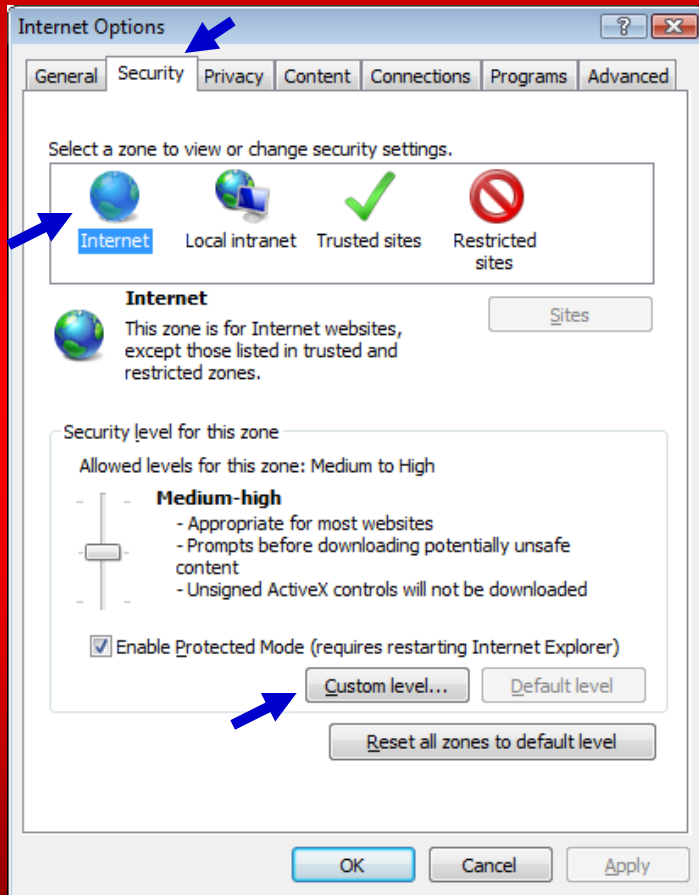
7. **Change the "Reset Custom Settings" to a lower security setting.**
8. **Click "OK" button.**
9. **Click "OK" button on next screen.**

Questions and Trouble Shooting Web Access Problems (Client)

Problem – I can display the web access screen from the local network, but cannot access from the internet

Solution - Disable Access Restrictions on a shared folder

If you have set an access restriction to a shared folder of LinkStation, You cannot play video or music files.

Please check the access restrictions of the shared folder to share on the web.

1. **Open Browser**
2. **Enter admin and password into logon screen**
3. **Click "Extension" Tab**
4. **Click "Web Access" Tab**
5. **Click on "Share" used for Web access.**
6. **Set [Web Access Settings] to [Allow Anonymous].**
7. **Click "Save" to keep changes.**

Questions and Trouble Shooting Web Access Problems
(iPhone Client)

Problem - Cannot browse files in LinkStation properly via iPhone/iPod Touch (Web Access Service）

Solution 1 - To use Web Access Service on the LinkStation from a iPhone 3G/iPod Touch, you must use a LinkStation that supports this service. LS-XHL Series
Check settings of LinkStation and the router.

Solution 2 - The Web Access Screen may not be displayed properly, depending on the settings of router or LinkStation. Please check these settings.

Solution 3 - Uncheck the proxy server option. The Web access screen may not be displayed properly when accessing via the proxy server.
Follow these steps to change the setting. * The example below uses "Internet Explorer 6."
1. Click [Start] [Control Panel], and double-click [Internet Options].
* If you use Windows XP, switch from Category view to Classic view on Control Panel.
2. Click [Connections] tab, and click [LAN Settings...]
3. If [Use a proxy server for your LAN] is checked, then uncheck it and click [OK] (*).
4. Click [OK] to close [Internet Properties] screen.
* If you do not want to uncheck the proxy server option, then
1) Click [Advanced] button under [Proxy server].
2) Under [Exceptions], enter the IP address of this unit and click [OK].

Solution 4 Check a file format to play
Following files are playable through Web Access Service.
[Files that can be viewed from iPhone 3G/iPod Touch through Web Access Service]
Video files: mp4, m4v, mov, qt
Music files: mp3, m4a, wav, aiff
Picture files: jpeg(jpg), gif, png, tiff
* You cannot play any data protected by DRM (Digital Rights Management).
* Compatibility of video files and music files depend on specifications of Safari or Quick Time that is installed on the iPhone.
* To convert non iPhone 3G/iPod Touch compatible file to compatible one, use off-the-shelf software.