USB 2.0 IP Device Server

User Manual

English



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LINDY-ELEKTRONIK GMBH

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1. Introduction

The USB 2.0 DEVICE SERVER Combo solution not only allows you to add storage space onto your home or office network but also allows you to work with the remote USB devices over a local network as if they were connected directly to your local PC.

Key Features of the application are

- Integrated USB-IP and NAS solution
- USB Port 0 and Port 1 are USB NAS ports. Any Mass storage devices connected to these ports will be detected as NAS drives
- The USB Port 2 and Port 3 are USB-IP ports, any device connected to these ports can be virtualized on to the client PC
- Allows USB Devices to be used and shared by client PC's on LAN
- Supports wide variety of USB devices
- Supports Ethernet networks 10/100Base-T via RJ-45
- Supports printer auto-reconnect while sharing the printer from Client PC's
- Supports auto sharing of USB devices
- Supports USB device safe removal
- User-Friendly application interface

The USB 2.0 Device Server solution enables on-the-go connection of USB Storage drives onto the 2 USB ports.

The USB Port 0 and Port 1 are USB NAS ports. Any Mass storage devices connected to these ports will be detected as NAS drives and needs to be manually shared onto the network. Any other device connected to these ports will not be detected or available.

The USB Port 2 and Port 3 are USB-IP ports, any device connected to these ports can be virtualized on to the client PC using the USBIP ADMIN Utility.

Access to the Network disks USB can be password protected and can be securely accessed over the network. The USB 2.0 Device Server Application has IPSec feature which utilizes the built-in Hardware Encryption Block to establish a Virtual Private Network (VPN) on-the-wire security.

2. Windows utility

The USBIP Admin utility Setup is an Install Shield based application, which can be used for installing, uninstalling and upgrading the Client Software for the USB 2.0 Device Server. Please run the self-explanatory Install shield application to install the Admin Utility.

The Admin utility is an application, which virtualizes the devices that are connected on the remote USB-Server. The USBIP Admin utility can also be used for configuring the USB server device (on the board).

2.1. TheVirtual USB-IP Driver Software

This contains a Virtual Bus Enumerator driver & Virtual Bus driver. These drivers will help in vitalizing the USB devices, for each attached device on the USB-Server.

Virtual Bus driver takes the USB traffic from the USB Client drivers and passes it to the USB-Server, which is sitting remotely on the network.

As soon as the utility is installed this application icon will be placed in the system tray as shown in the figure below.



Double click the icon on the system tray to view the Full screen mode of the PC client application as shown below.

🚭 USBIP Admin							
File Functions Dev	ice Mapping _⊻iew	Help					
🕨 😂 🕅	1.70 0	i 🕐					
0		D	evice Mapping			Server Details	
	Device Info		Port	Class	Status		
Device Mapping							
I							
Server Manager							
	<		μη.			> <	>
S.No E	ate : Time	Description					
						1	
Device Manning Lor		Los	i i ind				2
						2/8/2007 16:41:27	

The application has four panels, which are docked in the application.

- 1) Main window: This displays all the Device server and the USB Devices connected on them
- 2) Function Panel: This panel enables to switch between the Device Mapping and Server Manager Application.
- 3) Device Details Panel: This displays the more verbose information of the server and the device selected on the main window.
- 4) Log panel: Any event on the USB server creates a log in the Log panel. This helps in continuous monitoring of USB device servers on the network.

The Admin Utility has two main functionalities built in

- a) Device Mapping
- b) Server Manager

2.2. Device Mapping

Device Mapping enables virtualization of all USB Devices connected to the USB 2.0 DEVICE SERVER unit in your LAN on your local PC.

Click on the Green Arrow Button in the Admin utility to start the device mapping, which will automatically start the 'Found New Hardware' wizard to install the Virtual USB driver.

Continue the Add New Hardware wizard to install the Virtual USB driver for the USB 2.0 DEVICE SERVER Admin utility.

Select "Search for a suitable driver for my device (recommended)" and click on 'Next', the Operating System automatically will search for the driver until the Virtual USB over IP driver is installed.

Please Click on "Continue anyway" if a Windows dialog pops up about the Digital Signature as shown below.

 testing to verify its compatibility with Windows XP. (<u>Tell me why</u> this testing is important.)
Cuntinuing your installation of this suftware may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the software vendor for software that has passed Windows Logo testing.

Power on the USB 2.0 DEVICE SERVER board and connect an Ethernet cable from the USB 2.0 Device Server Ethernet port to your Local Area Network.

The USBIP Admin utility is capable enough to identify the USB 2.0 DEVICE SERVER USB servers by it's IP address on the network. As soon as the USB 2.0 DEVICE SERVER box is detected with a specific IP address the Windows automatically invokes a Found New Hardware Wizard to install the drivers for the USB server box.

NOTE: For proper enumeration of device remove the Firewall from the Windows Machine.

Continue the Installation to see the USB 2.0 DEVICE SERVER board and the USB devices connected in the Admin utility as shown below.

🚭 USBIP Admin					
Eile Functions Devic	e Mapping Yiew	Help			
۵. 🔇 🐗	Na 0	i 🕐			
()		Device Mapping		Server Details	
<u></u>	Device Info	Port Class	Status		
Device Mapping		3.22 (Loaded Successfully)			
Server Manager					
	<	H.	>		>
S.No Da	ite : Time	Description			
1 02-08-2 2 02-08-2 3 02-08-2	2007 : 16:42:15 2007 : 16:42:21 2007 : 16:42:21	Stated Device Mapping Functionally Informed New Server 192.168.3.22 Arrival Server (192.168.3.22) Arrival Notification Successful II			
<					>
Device Mapping Log	Server Manager	Log			
		Server (192.168.3.22) Arrival Notification	Successful. !!	2/8/2007 16:42:29	1

In the Device mapping window, all the USB devices are shown as a tree under the USB Server.

Right click on any device and click on "Connect" to virtualize that USB device onto your PC as shown below .

e Functions De	vice Mapping View Help			
	Device I	Mapping		
A.	Device Info	Port	Class	Status
Device Mapping	□ ■ 192.168.3.22 (Loaded Successfully) -	514	Audio	Connected
10	- 矣 Vid_046d&Pid_0840	515		e
Server Manager			Disconne	ect

2.3. Server Manager

S.No.	Serv	an Manager Par			
S.No.		er manager - Fol	ind 0 Servers(s))	Server Details
	Model	MAC Address	IP Address	Status	
					<
					Connected Clients (IP : USB Po
<		101		>	<
ate : Time	Descrip	tion			
	< state : Time	xte : Time Descrip	Ite : Time Description	Ate : Time Description	Ate : Time Description

The Server manager enables the Administrator to configure the USB 2.0 Device Server via the network.

The Server Manger also has an option to search for the device on the Network:

Right Click on the Server Manager Main window and Click on Search server as shown below .

D		Serve	r Manager - Fou	nd 0 Servers(s)]
As -	S.No.	Model	MAC Address	IP Address	Status
evice Mapping					
9					
erver Manager			Search Servers		
		a	<u>U</u> nlack	127	
			Upgrade Eirmware		
		17	Server Configuration		
		100	Restore Factory Default	s	

The dialog 'Searching for Servers' dialog will appear and list all the USB 2.0 Device Server devices on the Network as shown below

earching fo ound 1 Ser	or Servers rver(s), remaining time = 1	second(s)	X Stop
No	Model	MAC Address	IP Address
1	WCS8140-1	0-50-c2-1b-70-2f	192.168.3.22

The USB Device Server search is password protected and should be unlocked in order to configure the selected device.

100		Server Mar	nager - Found 1 Serve	irs(s)	Server Details	1
Macong Manager		97 40-1 0-50	Souch Sorvers Souch Sorvers Ordok Type ald (Primare Source (Derhopsition Source (Derhopsition		Connected Clients (IP: USB Port)	
02-00 02-00 02-00	Aute : Time \$2007, 17:01:14 \$2007, 17:01:25	Description No Server: found T Server(3) Found	1			

On selecting 'Unlock' the password dialog pops up as shown below. Key in the password in the 'Password' dialog. **The default password for the USB IP Server is "combo"**

Enter Password		-

If the Authentication has been successful an 'Unlock OK' dialog appears. The Device server can now be configured for various settings as given below.

2.3.1. Server Configuration

The Server Manager has an option to change Server Configuration settings through USBIP Admin Utility. To open server configuration window right click on the USB 2.0 DEVICE SERVER server displayed on the Server Manager Main window and select "Server Configuration" option as shown below.



The Server Configuration window will appear as shown below.

Model Name :	Basic Settings IP Settings Password	
MCS8140	/ Modify	
Mac Address:	Server Name: moschip	
00:50:c2:1b:70:2f	14 4 17 1 5 5 6 10 10	
Serial Number :		
60000		
Firmware Version :		
1.0.0.13		
	-	

Basic Settings:

The Basic Settings page allows you to specify a server name. Check the modify box and enter server name as shown below.

50	user remote the seconds lease out
Model Name : MCS8140	🔽 Modify
Mac Address :	Server Name: IISBIP
Serial Number :	
TATURA	
Firmware Version :	
1111111	

IP Settings:

The IP Settings page allows you to modify MCS 8140-D box IP Address as shown below.

1.111	Basic Settings TP Settings Password	
MCS0140		
4ac Address : 00:50:c2:1b:70:26	IP Curliguiation. Static	V
Gerial Number :	IP Address: 192 168 3 2	21
60000	Subnet Mask 255 . 255 . 0	
Tirmware Version : 1.0.0.13	Gate Way: 192 168 3 1	

The Default IP Address is 192.168.3.22

To modify the IP Address of the USB 2.0 DEVICE SERVER box, check the 'Modify' box and Select IP Configuration (Select IP configuration Static/DHCP from IP Configuration drop-down box) as shown below.

ormation —	Basic Settings IP Settings Password	
fodel Name :	n Demokratik ak	_
MCS8140	Modify	
lac Address :	IB Configurations Chatta	
00:50:c2:16:70:2f		4
erial Number :	IP Address: Static	
60000	Subnet Mask 255 , 255 , 255 , 0	-
rmware Version :		
1.0.0.13	Gate Way: 192 . 168 . 3 . 1	

After selecting IP Configuration key in the IP Address of the USB 2.0 DEVICE SERVER box in the IP Address field followed by proper Subnet Mask & Gate Way as shown below.

rmation	Basic Settings IP Settings	Password
todel Name : MCS8140	🔽 Modify	
Aac Address : 00:50:c2:1h:70:2f	IP Configuration:	Static
erial Number :	IP Address:	192 . 168 . 3 . 24
60000	Subnet Mask	255 . 255 . 255 . 0
irmware Version : 1.0.0.10	Gate Way:	192 . 168 . 3 . 1

After entering IP address, Subnet Mask & Gate Way then click on "save" button. Then USBIP Admin shows a progress bar, after the process is finished, the following message box will be displayed.

USBIP A	dmin 🛛 🔀
(j)	Server (192.160.3.24) configuration saved successfully !!

Note: Every unit in the network is identified by its IP address. The utility treats each IP address as unique device. If the IP address of the box is modified, the software treats the same box as a different device and will open a Found New Hardware Wizard.

Continue the Found New Hardware Wizard to install the Virtual USB-over-IP bus driver.

Now USB 2.0 DEVICE SERVER box appears with changed IP Address under USBIP Admin utility.

Password:

The Password Settings page allows you to change or Enable/Disable password of the USB 2.0 DEVICE SERVER box. The Password settings page will be as shown below.

ormation	Basic Settings IP Settings Password
fodel Name : MCS8140	
fac Address :	₩ Enable Password
00:50:c2:1b:70:2f	
erial Number :	☐ Modify
60000	New Presword
irmware Version ;	New Fasswolu .
1.0.0.13	Confirm Password

Check the Modify box to Enable or Disable password option to USB 2.0 DEVICE SERVER box.

2.3.2. Firmware Upgrade

The USB 2.0 Device Server Firmware can be upgraded remotely using the Firmware upgrade option. Select the server on the Server manager. Right Click on the server and Select Upgrade Firmware option to upgrade the firmware.

le Functions Se	rver Manager	⊻iew <u>H</u> elp				
13		Serve	er Manager - Fou	Ind 1 Ser	vers(s)
all.	S.No.	Model	MAC Address	IP Addre	ss	Status
Device Mapping	61	MCS8140-1	0-50-c2-16-70-2f	192	Search So Unlock	ervers
				*	Upgrade	<u>F</u> irmware
Server Manager					Server <u>C</u> Restore f	onfiguration Factory Defaults

Select the file to be upgraded by click on the Browse option in the "Select File" dialog as shown below.

àive File <u>P</u> ath		
D:\13July 2007\upgrade.	tar.bz2	<u>B</u> rowse
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6529

An upgrade.tar.bz2 file is required to upgrade the firmware. The upgrade .tar file can be downloaded from our website **www.lindy.com.**

Click on "Transfer" to upgrade the firmware. A firmware upgrade status is displayed which automatically relinquishes once the transfer is completed.

S.No.	IP Address	% Completion	Status
1	192.168.3.22	Uploaded - 100%	Uploading

As soon as the transfer is completed, the USB 2.0 DEVICE SERVER USB server box automatically restarts to apply the upgraded firmware settings.

2.3.3. Restore factory defaults

Right click on the USB 2.0 DEVICE SERVER in the Server Manager Window and select the Restore Factory Defaults function to obtain Default settings as shown below.

21		1 March 1997	and some second second second				
	The second se	Server	Manager - Four	nd 1 s	Servers(s)	000.0000011	Server Details
saas.	S.No.	Model	MAC Address	IP A	ddress	Status	
vice Mapping			the second se	P 3	sarch Servers		
A.				00	ntick.		
\checkmark				-	porade Ernware		
ver Manager				101 -	erver Confine rati		
					a ter Sounda eo		
				1980 B	estore Factory D	erauts	
							Connected Clients (IP : USB Port)
	<					1.2	8
	Date : Time	Description	6				
10		1 Samadal E	bund				
lo 02-0	0-2007, 17:01:25	1 Seischfelle.	1000000				
lo 02-0 02-0 02-0	0-2007, 17:01:25 8 2007, 17:05:05 8-2007, 17:41:38	Unlock succe Server (192	risful II 168.3.22 controuration a	saved su	ccessfully #		
In 02-0 02-0 02-0 02-0 02-0	0-2007, 17:01:25 8:2007, 17:05:05 8-2007, 17:05:05 8-2007, 17:41:38 8:2007, 18:30:56	Unlock succe Server (192 Server (192	eschal II 168.3.22 configuration : 160.3.22 configuration :	saved su saved su	accessfully # accessfully #		
10 02-0 02-0 02-0 02-0 02-0 02-0 02-0 02	8-2007, 17:01-25 8-2007, 17:05:05 8-2007, 17:05:05 8-2007, 17:41:38 8-2007, 18:30:56 8-2007, 18:43:36 8-2007, 18:56:20	Unlock such Server (192 Server (192 Server (192 Bestoring fac	estul II 168.3.22 configuration i 160.3.22 configuration i 168.3.24 configuration i tog default values	saved su saved su saved su	accessfully II accessfully II accessfully II		
No 02-0 02-0 02-0 02-0 02-0 02-0 02-0 02-0	8-2007, 17:01:25 8-2007, 17:05:05 8-2007, 17:05:05 8-2007, 18:30:56 8-2007, 18:30:56 8-2007, 18:56:20 8-2007, 18:56:20 8-2007, 18:56:21	Unlock such Server (192 Server (192 Server (192 Restore Jack Restore Jack	essful II 168.3.22 configuration is 168.3.22 configuration is 168.3.24 configuration is tony default values ity default values success	saved su saved to taved so dul !!	accessfully II accessfully II accessfully II		
10 02-0 02-0 02-0 02-0 02-0 02-0 02-0 02	9-2007, 17:01-25 8-2007, 17:05:05 9-2007, 17:05:05 8-2007, 19:30:56 8-2007, 18:30:56 8-2007, 18:56:20 9-2007, 18:56:21 8-2007, 18:59:24 8-2007, 18:59:24 8-2007, 18:59:24	Unlock succi Server (192 Server (192 Server (192 Bestoring Inc Restore Table Server(1) Fo Unlock succe	essful II 169.3.22 configuration 169.3.22 configuration 169.3.24 configuration 169.3.24 configuration 169.3.24 configuration 169.3.24 configuration 169.3.24 configuration 169.3.25 configuration 169.3.25	saved su saved su saved su dul II	accessfully II accessfully II accessfully II		

Then USBIP Admin Utility pops up a window asking for to continue or not. If we select Ok button it will get default settings.



2.4. Printer Auto-Connect:

USB Admin Utility enables Printers be shared between multiple clients making it a bidirectional Print Server. In order to share the printer between multiple clients the user may need to connect the printer at least once to install the driver for the Printer.

Once the printer is enumerated disconnect the Printer form the Device Mapping Window, Select the

Printer Auto Reconnect button

on the Menu bar to open the Printer Auto-Connect Window.

🥩 Printer AutoCo	onnect		
Note: The Printer Auto C computer every tin Please make sure y before enabling Au To enable Auto Co	ionrect feature, automatically Connects and E ne you give a print. your printer has been setup and configured pr ito Connect for your printer. nnect, click the check box next to your Printe	Disconnects your printer roperly to print from yo r's name.	r from your ur machine,
	Printer Name	ServerIP	Port
	☑ EPSON Stylus C87 Series	192.168.3.22	258
~~	¢		>
		Save	X Exit

Select the Printer which was connected and Click on "Save" and close the Window.

Once the Printer is configured for Auto-Connect mode, It remains free as long as the Printer is connected and becomes "Busy" only when a user prints to the printer connected.

Multiple User print jobs will be executed on a time sharing basis.

3. Web Server

The USB 2.0 DEVICE SERVER Combo has a user-friendly web browser interface to configure the box.

To open the web interface just type the IP address of the box, i.e: http://192.168.3.22:901 in the browser. (Make sure that the proxy server is disabled on your PC's Internet explorer).

A dialog prompts for the username and password. The username is "**root**" and the default password is "**combo**".

Connect to 19	2,168.3.22
47	
Secure-NAS	
User name:	2
Password:	
	<u>Remember my passwora</u>
	OK Cancel

If the authorization has been successful, the home page of the USB 2.0 DEVICE SERVER NAS application will be visible as shown below.

	and a straight of the second	
A Comparison and a compar	M((77) (8) Declaration	(M)
Moschip Secure-MAS	0 · 0 · 0 · 0 · 0 ·	pe + 🞲 Tools +
		(
	Secure	-NAS
	v	ersion 0.0.4
Home Network Secure-NAS Virtual USB		
case choose a configuration action using one of the above tabs.		
About		
 Secure-NAS webserver is a configuration utility for creating network shares from the disks connected to the box. 		
e dittres		
 Signore various filesustem types 		
7 IDEar medicuration for service arrays over the sure.		
 r.aac chuiñn ann in bacha andba nas mar 		
	Maschis Semicord	ottor Tech. Idd
	Courteavi: http://w	ww.samba.org
		đ

3.1. Network Settings

The "Network" tab allows you to configure both wired as well as wireless interfaces. For the wired side we can configure the Static IP manually or set the box to automatically obtain an IP address by setting to the Dynamic (DHCP) mode. (Make sure that the DHCP server should be in ON).

Moschip Secure-NAS - Windows Internet Explorer	
🗿 🕞 🔹 😰 http://192.168.3.22:901/network	[4] [x] [uw Seich [/A]:
<u>n</u> .	
😫 🔅 🌈 Moschip Secure NAS	💁 + 🔝 👾 + 🕞 Bage + 🕲 Tgols + 📩
	Secure-NAS
Home Secure NAS Virtual USS	
select network interface type: 🖉 Wired LAN 🖉 Wireless LAN	
Select Server IP Type:	
Static IP address : 192.168.3.22	
Subnet Mask : 255.255.0	
Default Gateway : 192.168.3.1	
Commit	
	Misschip Remanductor Yech: Util
	Courtesys http://www.sambs.org

If the user selects the Network Interface type as "Wireless LAN" the browser shows the Wireless configuration web page as shown below.

ATO - In the distance		
. (E) wdb/litac.100.01	2.301/storok with	W (M) × (free sector)
G -		
Ar OR AB Moschip Secure-NAS		Gr + D - He + D top + O took +
		Secure-NAS Version 0.0.4
Home Network	Secore-NAS Virtual USB	
letwork Settings		
ielect network interface ty	pe: 🖆 Wired LAN 🥰 Wireless LAN	
Vireless Configuration		
Select Server IP Type:	Static C Dynamic(DHCF)	
Static IP address :	192.166.11.2	
Subnet Mask :	255.255.255.0	
Default Gateway :	192.168.11.1	
WI-F) Router Name 1	Glany C Select Select	
Encryption :	For Con	
Key Type -	6 ascii key C Mex key	
well the -		
Key Value :		
Key Value : Commit		
Key Value : Commit		

Select the Server IP Type, and select Static in order to change the *IP address, Subnet mask* and *Default Gateway* of the Box. If the choice is made as "*Dynamic (DHCP)*", the box will automatically try to get an IP Address from the wireless router available.

In the Wireless configuration the application can also list the Wifi access points available in the network in the *Wi-Fi Router Name*.

If the choice has to be made to connect to a specific Wireless Router or access point choose "Select" radio button and select the Wireless router in the dropdown menu.

3.2. Secure NAS Settings

The web-server has separate webpage to configure Secure NAS. Click on the Secure-NAS tab to view the secure NAS settings in the Combo NAS USB IP solution.

Moschip Secure-MAS - Windows Internet Explorer	50
→ (2) HULL/192.168.3.22:001,045	₩ [4] X [Lee South] [P
Y & @Mostip SecuritiAS	Ø • □ · ⊕ • ⊇ Ever • @ Tack •
	Secure-NAS
Home Network Secure-NAS Vinuel USS Shares Users YTP Security Status	
nare Parameters	
Inter a New Share Name Select To Edit Share Select To Delete Share Select To Delete Share Select To Delete Share Select Share Select Share Select Share Select Share Select Share Select	
Partition Name Size Used Free Used%; ingston_DataTrave(=/slip_3071200012_1 1.90 59.2M 1.90 3%; ingston_DataTrave(=_i.g_307610002439_1 1.9G 956.6M 540.6M S0%;	
	Plastep Seniconduction Tech. Ltd Countersy / Mitty. // www.samble.org

3.2.1. Shares setting

The "Shares" tab is for creating/editing/deleting a share. A share is the partition of the disk that you want others in the network to access. When a disk is connected to the NAS box the partitions and their statistics will be shown in this page.

🖉 Maschip Secure NAS - Windows Internet Exp	lorer -	
🚱 🕗 + 🕼 http://192.168.3.221905/NAS		🖉 🖓 🗐 Lee see th
\$1 ·		
🚖 🚱 🖉 Moschip Secure NAS		🖓 + 🔯 📾 + 🖓 Ease + 🖓 Taola - 1
time Network Balance	AST Victor Tree	Secure-NAS
Shares Users ITP Decurity Status		
Enter a frein Share Norms Select To Edit Share Select To Delete Share	Orable Share Edit Share Orabits Thore 1	
Partition Name Kingston_DetaTravelerMin_S67514000112_1 Kingston_DetaTraveler_2.0_S67618002439_1	Size Used Pres Used% 1.55 55.37 1.92 3% 1.05 995.84 642.94 32%	
		Muschip Samuscutur Techi Lid Cauraxyy Http://Www.Samus.cog
and direct rate is the state later.		The Descent The Descent The Descent

Specify the name in the "Enter a New Share Name" field to create a new share. If you have already created a share then they will be shown in the "Select to Edit Share" and "Select to Delete Share" lists that will allow you to edit/delete the shares.

When you click "Create Share" the parameters required for creating a new share are displayed.

Moschip Secure-NAS - I	/indows Internet Explorer	
(3) • (2) http://192.1	68.3.22 901/stores	🖌 🔄 🖌 Lie burti 🖉
教 ・		
🕼 🕼 🖉 Moschip Secure	WAS [100]	Si + Di 🖶 + Di tani + O tani +
		Secure-NAS
Home Network Shares Deets FTP 3	nk Secure-NAS Virtual USB ecurity Status	
Share Parameters		
Enter a New Share Name Select To Edit Share Select To Delete Share	pendrive1 V End Share pendrive1 V End Share pendrive1 V Delate Flame	
Enter parameters fo	r : pendrive1	
Select Partition:	Kingston_DataTravelerMini_58731A000112_1 😒	
Base Options	(optional)	
Security Options validusers	[contered]	
readonly questok	No Y	
Browse Options browseable	Yes M	
Miscellaneous Options available	Yes 🛩	
Commit Changes	Reset Values	

Once a share is created by some the name (Ex: "flash_drive"), then you will be prompted to enter the parameters for the share.

- Select Partition: Select the partition which you want to access with the given share name.
- **Comment:** Comments that you want to give for a share (optional setting)
- Validusers: Give the users separated with commas who are authorized to access this share. If no user is listed then all will have access to that share. (optional setting)
- **Readonly:** Set read/write permissions for the share. Default is "No" which is read/write permission.
- **Guestok:** Access the share with no password with account specified under *guest account*.
- **Browseable**: This controls whether this share is seen in the list of available shares in a net view and in the browse list.
- **Available**: This parameter lets you "turn off" a service. If *available* = *no*, then *ALL* attempts to connect to the service will fail

For normal use you need not edit any parameters except selecting the required partition. Click on "Commit Parameters" button and your share will be ready.

3.2.2. User Settings

In the "Users" tab you can add/delete/enable/disable a user. You can also change the password for a specified user. The list of registered users will be displayed at the bottom. Enabling/Disabling a user means if a user has been created and you want the user not to access any share then you can disable that user. Means he will not be entirely deleted but only restricted to access any share.

Moschip Secure NAS - Windows Internet Exple	iler		
(3) + (2) http://192.168.3.22:901/passed		M [**] X] [the Seath	ρ-
🍲 🕸 🧭 Moschip Secure-NAS		ର କ କ ଜ	Enge • () Tgols • "
		Secure	e-NAS
Home Network Secure-NAT Shares Users FTP Security Status	5 Vinual VEB		1
Server User Management			
User Name I New Password I Sectype Rew Password I	Password should be minimum I characters and manimum 8 characters		
S.No. Registered User(s)	Sans rease		
		Hachip Semin Courtery: http:/	ndiadan Techi Uni //www.samba.org
			(2)
Dane		🙆 🖨 Internet	ft 100% +

A username "moschip" is by default present, which is shown in the Registered User(s) table.

3.2.3. IPSec Security Settings

In the "Security" tab you can configure a VPN with a client for secure access to the box. The box uses IPSec for establishing a VPN.

Moschip Secure MAS Windows Internet Explorer	
O (1) + [8] http://192.166.3.22.901/network_security	X 17 X Limiters P
\$3.*	
🛠 🔅 💋 Maschip Secure MAS	🕃 • 🔂 🖶 • 🖓 Expe • 🔘 Taole •
	Secure-NAS
Home Retwork Secure-RAS Virtual USB Shares Vices FTB Security Status	
PSec Settings	
IPSec Connection:	
Encryption: Image: Constraint of the second se	
Key Management: Auto (IKE) 🗙 🛛 🗛 🕅	
PFS: C trable C Doable	
Preshared Key: moschip	
Key Life Time: 3600	
Connection Status: Disconnected	
Control 1	
	Breaching Standards and Tacity 117
	Constant) (http://www.aarritec.org
	C Charles a second

By default the security will be disabled. Then we have the encryption and authentication settings. The USB 2.0 DEVICE SERVER NAS will support 3DES, AES128, AES192 and AES256 encryption techniques and MD5, SHA1 authentication techniques.

Encryption:	⊙ 3DES	C AES128	O AES192	O AES256
Authentication:	⊙ MD5	O SHA1		

The "Key Management" allows setting the type of key management whether Auto IKE (Internet Key Exchange) or "Manual".

In the below figure the "Auto (IKE)" is selected. Under this you have an option for enable/disable PFS (Perfect Forward Secrecy) which is useful for key exchange. The "Pre-shared Key" field is to specify what key to use and the "Key Life Time" field is the amount to specify the key lifetime in seconds.

Key Management:	Auto (IKE) 💌	Apply
PFS:	C Enable 💿 Disable	
Preshared Key:	moschip	
Key Life Time:	3600	

The below figure is the "Manual" configuration of Key Management. Here we have to specify the "Encryption Key" as well as the "Authentication Key". Apart from these we have a SPI (Security Parameter Index) field with which the SA's (Security Associations) will be identified.

Key Management:	Manual	Apply
Encryption Key:	ABCDEFGHIJKLMNOPQ	
Authentication Key:	ABCDEFGHUKLMNOP]
SPI:	0x100	(0x100 to 0xfff)

The connection status (Disconnected/Connected) will be displayed at the bottom in red.

Connection Status: Disconnected

Please check the Appendix section to know on how to configure IPSec on a Windows XP machine.

3.2.4. The Status page

In the "Status" tab you can view the NAS server status, active connections, active shares and opened files in a very informative way.

🖉 Moschip Secure NAS - Windows Internet Explorer		
🚱 🕞 🔹 🙋 http://192.168.3.22:901/status	💌 🥙 🔛 Une Search	<i>P</i> -
10 ·		
🙀 🗇 🚰 Hoschip Secure NAS	Q • D 4	1 • 💮 Bage • 🔘 Tgols • "
	Sec	Ure-NAS
Home Network Secure/NAS votual US8 Shares Upers FTP Security Status		
Server Status Refresh Interval: 30 Auto Refresh File server Manager: running Scop Restart Network Nanager: running Scop Restart		
Active Connections		
PID Client IP address Date KII 3868 moschip-f9116c0 192.168.3.30 Thu Jan 1 00:10:52 1970 3		
Active Shares		
Share User Group PID Client Date k1 moschup maschup-1911640 Thu Jan 1 00;10:56 1970 IPC8 moschup 2869 moschup-F911640 Thu Jan 1 00;10:52 1970		
Open Files		
PID Sharing R/W Oplock File Date		
http://192.168.3.22:901/status	🧔 🚱 Internet	9, 100% -

The "Auto Refresh" button when clicked will keep on refreshing the page based upon the given refresh time interval.

The "Active Connections" will display the IP addresses and the PC names that have connected to the NAS box. In the "Kill" column you can close a connection by clicking "X" mark. But the client can reestablish the connection.

The "Active Shares" page will display which share is accessed by which client. The "Open Files" will display which files are currently opened by which client. The file permissions are also displayed here.

3.3. Virtual USB-IP Settings

The web-server has separate webpage to configure Virtual USB server settings. Click on the Virtual USB tab to view the USB server settings in the Combo NAS USB IP solution.

Image: Second Addition Image: Second Addition Image: Second Addition Image: Second Addition	Q • S − ⊕ • ⊘(Bage + 🔘 Tgals +
	<u>ର</u> ଇ କ ହା	Eage + 🗊 Tools +
	Secure	B-NAS Version 0.0.4
Nome Retwork Secure-NAS Virtuel USB Introduction Device-Ristus Upgrade		
Introduction		
About		
© USS over IP enables working with the remote USS devices over a local network or Internet.		
Features		
a Allows USB Devices to be used and shared by client PC's on LAN.		
 Supports wide variety of USB devices. 		
© Supports both Ethernet and Wilh networks .		
O Supports printing to USB printer from both Wireless Interface.		
Supports printer auto-reconnect while sharing the printer from Ellient PC's.		
Supports auto sharing of USB devices.		
© Supports USB device safe removal.		
© User-Friendly Application interface.		
	Moschip Semicor	nductor Tech. Ltit

3.3.1. The Status Page

	http://192.168.	3.22:901/vusbstatus?refre	ds_interval=208eofre	V 4 X Lee South	
b -					
A de Bres	hp Secure-NAS	a.			lig • □ · ⊕ • ⊡ text •
					Secure-NAS Version 0.0.4
Home Introduction 1	Netvoric evice-Satu	Secure-NAS IN Upgrade	Vetual Of	58	
Irtual USB	Device S	tatus			
This Page Displa	rs Status of 1	Virtual USB devices			
S.No VID	PID	CLASS	PEER JP	STATUS	
1 0×41e	0x4029	WebCern VistePro	192.160.3.30	BUSY	
s Lorsac	1.047104	1 100	1 195-100-3-30	a dist	
					Measting Semiconductor Tech. Ltd
					Mnaship Semiconductor Tech, Ltd
					Masship Semiconductor Tech, Ltd

The status page displays the current status of the USB devices attached.

- Device Status:
- Vendor Id
- Product Id
- Class Id
- Peer-ip address
- Status

This status page is updated automatically every 10 seconds and it shows the device connected to USB 2.0 DEVICE SERVER board.

The Device Status table shows the Vendor Id, Product Id, Class, Peer-IP and the Status of the Device connected. The Peer-IP is the IP Address of the computer on which the device is currently accessed. Whenever any Device is Busy the Status of that device changes to "BUSY" and whenever it is not being used it changes to "FREE" as shown below.

s.no	vid	pid	class	peer ip	status
1	0x46d	0x92f	Camera	0.0.0.0	FREE
2	0x58f	0x6387	Mass Storage Device	192.168.3.23	BUSY
3	Ox4b4	0x6830	USB2.0 Storage Device	192.168.3.23	BUSY
4	0x58f	0x6387	Mass Storage Device	0.0.0.0	FREE

3.3.2. The Upgrade Page

The Upgrade page allows you to upgrade the firmware.

🖉 Moschip Secure NAS - Windows Internet Explorer	
🗿 🖓 + 👔 http://192.108.3.22.901/kegrade	[A] [X] London [P] .
12	
A A Mosche Secure NVS	🧕 - 🗐 🖶 - 🖓 Enge - 🖓 Tgak - '
	Secure-NAS
Home Network Secure-Nas United USB Temploution Democrations Upgrade	
Upgrade	
Please specify the file name:	
upgrade dear	
	Noochu: Servicanductor Tech. Ltd
	1
Done	👩 😁 Internet 🗮 100% 🔸

Select the file to be upgraded by click on the Browse option on the Upgrade page as shown below.



A file named upgrade.tar.bz2 file is required to upgrade the firmware. If one is availableThe upgrade .tar file can be downloaded from the LINDY website, www.lindy.com.

🚰 .: us b - ip : Microsoft	Internet Explorer
<u>File Edit View Favorites I</u> d	ools <u>H</u> elp
🌀 Back 👻 🕥 - 💌 💈	🔪 🏠 🔎 Search 🤺 Favorites 🜒 Media 🚱 🙆 + 🍒 🔯 🔹 🗖
Address ithtp://192.168.3.22:80)80/upgrade.html
home netwo	ork status upgrade thanks
server summary	Upgrade
Serial Number - 60000 Server Name - moschin	Please specify the file name:
Server Model - NU4 FW Version - 1.0.0.9	C:\Documents and Settings\pavan\Desktop' Browse

Click on "upgrade" to upgrade the firmware



A file successfully uploaded message is displayed and the webpage also indicates that the USB 2.0 DEVICE SERVER box is restarting to apply the upgraded firmware settings.

4. Accessing the Network drive

Ensure the PC IP Address and Box IP Address is in the same subnet. The network drive will be available on "My Network places" of Windows operating system.

Goto My Network places> Entire Network>Workgroup>mcs8140 as shown below to access the network drive on USB 2.0 DEVICE SERVER.



Shortcut: Goto Programs > Run. Type the IP address of the unit in the Run Dialog as show below.

Run	2 🔀
	Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.
Open:	1192416918122
	OK Cancel Browse

OR

Type the box name in the Run dialog as follows: \\mcs8140

Radio Frequency Energy, Certifications

FCC Warning

This device 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.

CE Statement, EMC Compatibility

This device complies with EN Standards EN55022 and EN55024 according to the relevant EC EMC Directive. It must be used with shielded cables only to maintain EMC compatibility.

Dieses Produkt entspricht den einschlägigen EMV Richtlinien der EU und darf nur zusammen mit abgeschirmten Kabeln verwendet werden.

LINDY Herstellergarantie

LINDY gewährt für dieses Produkt über die gesetzliche Regelung hinaus eine zweijährige Herstellergarantie ab Kaufdatum. Die detaillierten Bedingungen dieser Garantie finden Sie auf der LINDY Website aufgelistet bei den AGBs.



WEEE (Waste of Electrical and Electronic Equipment), Recycling of Electronic Products

In 2006 the European Union introduced regulations (WEEE) for the collection and recycling of all waste electrical and electronic equipment. The wheelie bin symbol shown indicates that this product must not be disposed of with household waste. Instead the product must be recycled in a manner that is environmentally friendly. For more information on how to dispose of this product, please contact your local recycling centre or your household waste disposal service. Each individual EU member state has implemented the WEEE regulations into national law in slightly different ways. Please follow your national law when you want to dispose of any electrical or electronic products.

More details can be obtained from your national WEEE recycling agency.

Germany / Deutschland

Die Europäische Union hat mit der WEEE Direktive umfassende Regelungen für die Verschrottung und das Recycling von Elektro- und Elektronikprodukten geschaffen. Diese wurden von der Bundesregierung im Elektro- und Elektronikgerätegesetz – ElektroG in deutsches Recht umgesetzt. Dieses Gesetz verbietet vom 24.März 2006 an das Entsorgen von Elektro- und Elektronikgeräten über die Hausmülltonne! Diese Geräte müssen den lokalen Sammelsystemen bzw. örtlichen Sammelstellen zugeführt werden! Dort werden sie kostenlos entgegen genommen. Die Kosten für den weiteren Recyclingprozess übernimmt die Gesamtheit der Gerätehersteller.

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LINDY No 42829

1st Edition, Oct 2008

www.lindy.com

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