



ALL60700

User's Manual

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About This Manual

All information in this manual has been carefully verified to ensure its correctness. In case of an error, please provide us with your feedback. ALLNET Technology Corporation reserves the right to modify the contents of this manual without notice.

Product name: ALL60700 Manual Version: 1.0 Release Date: December 2010

Limited Warranty

ALLNET Technology Corporation guarantees all components of ALLNET NAS products are thoroughly tested before they leave the factory and should function normally under general usage. In case of any system malfunctions, ALLNET Technology Corporation and its local representatives and dealers are responsible for repair without cost to the customer if the product fails within the warranty period and under normal usage. ALLNET Technology Corporation is not responsible for any damage or loss of data deemed to be caused by its products. It is highly recommended that users conduct necessary back-up practices.

Safety Warnings

For your safety, please read and follow the following safety warnings:

- Read this manual thoroughly before attempting to set up your ALLNET ALL60700.
- Your ALLNET ALL60700 is a complicated electronic device. DO NOT attempt to repair it under any circumstances. In the case of malfunction, turn off the power immediately and have it repaired at a qualified service center. Contact your vendor for details.
- DO NOT allow anything to rest on the power cord and DO NOT place the power cord in an area where it can be stepped on. Carefully place connecting cables to avoid stepping or tripping on them.
- Your ALLNET ALL60700 can operate normally under temperatures between 5°C and 40°C, with relative humidity of 20% – 85%. Using ALLNET ALL60700 under extreme environmental conditions could damage the unit.
- Ensure that the ALLNET ALL60700 is provided with the correct supply voltage (AC 100V ~ 240V, 50/60 Hz). Plugging the ALLNET ALL60700 to an incorrect power source could damage the unit.
- A Do NOT expose ALLNET ALL60700 to dampness, dust, or corrosive liquids.
- Do NOT place ALLNET ALL60700 on any uneven surfaces.
- DO NOT place ALLNET ALL60700 in direct sunlight or expose it to other heat sources.
- DO NOT use chemicals or aerosols to clean ALLNET ALL60700. Unplug the power cord and all connected cables before cleaning.
- DO NOT place any objects on the ALLNET ALL60700 or obstruct its ventilation slots to avoid overheating the unit.
- Keep packaging out of the reach of children.
- If disposing of the device, please follow your local regulations for the safe disposal of electronic products to protect the environment.

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Chapter 1: Introduction

Overview

Thank you for choosing the ALLNET ALL60700 Server. The ALLNET ALL60700 is an easy-to-use storage server that allows a dedicated approach to storing and distributing data on a network. Data reliability is ensured with RAID features that provide data security and recovery—over multiple Terabyte of storage are available using RAID 5 and RAID 6. Gigabit Ethernet ports enhance network efficiency, allowing ALLNET ALL60700 to take over file management functions, increase application and data sharing and provide faster data response. The ALLNET ALL60700 offers data mobility with a disk roaming feature that lets you swap working hard drives for use in other ALLNET ALL60700, securing the continuity of data in the event of hardware failure. The ALLNET ALL60700 allows data consolidation and sharing between Windows (SMB/CIFS), UNIX/Linux, and Apple OS X environments. The ALLNET ALL60700's user-friendly GUI supports multiple Languages.

Product Highlights

File Server

First and foremost, the ALLNET ALL60700 allows you to store and share files over an IP network. With a Network Attached Storage (NAS) device, you can centralize your files and share them easily over your network. With the easy-to-use web-based interface, users on your network can access these files in a snap.

To learn about the Web User Interface, go to Chapter 5: Using the ALLNET ALL60700 > Using WebDisk.

FTP Server

With the built-in FTP Server, friends, clients, and customers can upload and download files to your ALLNET ALL60700 over the Internet with their favorite FTP programs. You can create user accounts so that only authorized users have access.

To set up the FTP Server, refer to Chapter 4: System Network> FTP .

iTunes Server

With the built-in iTunes server capability, the ALLNET ALL60700 enables digital music to be shared and played anywhere on the network!

To set up the iTunes Server, refer to Chapter 4: Application Server>iTunes Configuration.

Backup Server

Don't leave precious data to chance. With advanced backup capabilities, you can easily upload mission critical files to the ALLNET ALL60700, and even automate your backup tasks for true peace-of-mind.

To find out how to backup your files with the ALLNET ALL60700, refer to **Chapter 4: Backup >Nsync**.

Printer Server

With the ALLNET ALL60700's Printer Server, you can easily share an IPP printer with other PCs connected to your network.

To set up the Printer Server, refer to Chapter 4: Application Server>Printer Information.

Multiple RAID

ALLNET ALL60700 supports multiple RAID volumes on one system. So, you can create RAID 0 for your non-critical data, and create RAID 1,5 or 6 (depend on model) for mission-critical data. Create the RAID levels depending on your needs.

To configure RAID modes on the ALLNET ALL60700, refer to **Chapter 4: Storage Management >RAID Information**.

iSCSI Capability

ALLNET ALL60700 is not only a file server, but it also supports iSCSI initiators. Your server can access ALLNET ALL60700 as a direct-attached-storage over the LAN or Internet. There is no easier way to expand the capacity of your current application servers. All the storage needs can be centrally managed and deployed. This brings ultimate flexibility to users.

To set up an iSCSI volume, refer to Chapter 4: Storage Management > Space Allocation > Allocating Space for iSCSI Volume.

Superior Power Management

ALLNET ALL60700 supports schedule power on/off. With this feature, administrator can set at what time to turn on or off the system. This feature is a big plus for people who want to conserve energy. Wake-On-LAN enables administrator to remotely turn on the system without even leaving their own seat.

To schedule system on and off, refer to Chapter 4: System Management> Scheduled Power On/Off

Package Contents

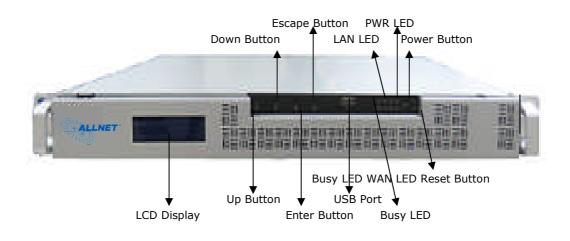
The ALLNET ALL60700 should contain the following common items:

- System Unit x1
- QIG (Quick Installation Guide) x1
- CD-Title x2 (Twonky media server CD & ALL60700 CD)
- USB Cable x1
- Ethernet Cable x1
- Screw Kit & Key-Luck x1
- Power cord x1

Please check to see if your package is complete. If you find that some items are missing, contact your dealer.

Front Panel

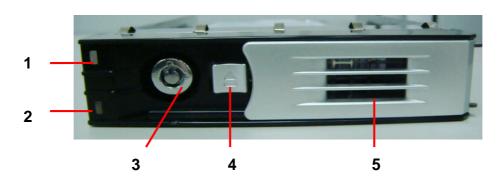
The ALLNET ALL60700 front panel has the device's controls, indicators, and hard disk trays:



Front Pane	
Item	Description
WAN LED	Solid green: network link
	Blinking green: network activity
LAN LED	Solid green: network link
	Blinking green: network activity
Busy LED	 Blinking orange: system startup or system maintenance; data currently inaccessible
USB Port	 USB 2.0 port for compatible USB devices, such as digital cameras, USB disks, and USB printers
Power Button	Power on/off ALL60700
	Solid blue: Device is powered on
	• Blinking blue: eSATA hard disk is connected and active
Reset Button	• Resets the ALL60700
	 Press for five seconds during boot process to reset IP address and admin password
HDD Trays	• Four 3.5" SATA HDD trays
	 Locks are provided for added security
LCD Display	 Displays current system status and warning messages
	 Displays hostname, WAN/LAN IP address, RAID status, and
	current time
Up Button ▲	 Push to scroll up when using the LCD display
Down Button ▼	 Push to scroll down when using the LCD display
Enter Button 🚽	 Push to confirm information entered into the LCD display
Escape Button ESC	Push to leave the current LCD menu

Hard Disk Trays

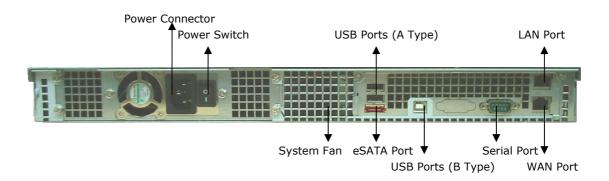
Each of mentioned above models hard disk trays has a lock, a latch, and two LED indicators:



Hard Disk Trays		
Item	Description	
1.HDD Power LED	• Solid blue: hard disk is powered on	
2.HDD	• Blinking green: system is accessing data on the hard disk	
Access/Error LED		
3.Lock	 Use the lock to physically secure the hard disk to the unit 	
4.Latch	 Use to open and remove or close and secure the tray 	
5.Handle	• Pull out HDD tray	

Rear Panel

The ALL60700 rear panel features ports and connectors.



ALL60700 Back Panel		
Item	Description	
eSATA Port	 eSATA port for high-speed storage expansion 	
USB Ports	USB 2.0 ports for compatible USB devices, such as digital	
	cameras, USB disks, and USB printers	
WAN Port	WAN port for connecting to an Ethernet network through a switch	
	or router	
LAN Port	LAN port that can be used for connection sharing	
Power Switch	Switch for power supply	
System Fan	 System fan that exhausts heat from the unit 	
Serial Port	This port is for factory use only	
Power Connector	Connect the included power cord to power connector	

Chapter 2: Hardware Installation

Overview

Your ALLNET ALL60700 is designed for easy installation. To help you get started, the following chapter will help you quickly get your ALLNET ALL60700 up and running. Please read it carefully to prevent damaging your unit during installation.

Before You Begin

Before you begin, be sure to take the following precautions:

- 1. Read and understand the **Safety Warnings** outlined in the beginning of the manual.
- 2. If possible, wear an anti-static wrist strap during installation to prevent static discharge from damaging the sensitive electronic components on the ALL60700.
- 3. Be careful not to use magnetized screwdrivers around the ALLNET ALL60700's electronic components.

Cable Connections

To connect the ALL60700 series products to your network, follow the steps below:

1. Connect an Ethernet cable from your network to the WAN port on the back panel of the ALL60700.



2. Connect the provided power cord into the universal power socket on the back panel. Plug the other end of the cord into a surge protector socket. Press the power supply switch to turn on the power supply.



3. Press the power button on the Front Panel to boot up the ALL60700.

Checking System Status

After making connections on the ALL60700 and powering up, check whether the system status is normal or has trouble by observing indicators on the front panel and hard disk trays.

System Status Normal

The system status is normal if:

- 1. The WAN and LAN LEDs glow green (assuming both are connected).
- 2. The Power LED on the Front Panel glows blue.
- 3. The HDD Power LED on each HDD tray glows blue (assuming all disks are installed).
- 4. The default IP address of the WAN port is 192.168.1.100.

Chapter 3: First Time Setup

Overview

Once the hardware is installed, physically connected to your network, and powered on, you can configure the ALLNET ALL60700 so that it is accessible to your network users. There are two ways to set up your ALLNET ALL60700: using the **ALLNET Setup Wizard** or the **LCD display**. Follow the steps below for initial software setup.

ALLNET Setup Wizard

The handy ALLNET Setup Wizard makes configuring ALLNET ALL60700 a snap. To configure the ALLNET ALL60700 using the Setup Wizard, perform the following steps:

- 1. Insert the installation CD into your CD-ROM drive (the host PC must be connected to the network).
- 2. The Setup Wizard should launch automatically. If not, please browse your CD-ROM drive and double click on **Setup.exe.**



3. The Setup Wizard will start and automatically detect all ALLNET storage devices on your network. If none are found, please check your connection and refer to **Chapter 7: Troubleshooting** for assistance.

		Dev	vice Discove	ry
•	No	Host Name	IP	MAC
Device Discovery	1	ALL6800	192.168.1.94	Start for Start and South
a loss loss				
Login				
System				
2				
Network				
Configuration				
•				
Enable Service				
Service				
Hard Disks				
Setup				
	4			1
Change				
Password				

- 4. Select the ALLNET ALL60700 that you like to configure.
- 5. Login with the administrator account and password. The default account and password are both "admin".

	Login System
Device	
Discovery	
Login	
System	
Network	Admin ID: admin
Configuration	Admin ID : admin
)	
Enable	Password: House
Service	
Hard Disks	
Setup	
Change	
Password	

6. Name your ALLNET ALL60700 and configure the network IP address. If your switch or router is configured as a DHCP Server, configuring the ALLNET ALL60700 to automatically obtain an IP address is recommended. You may also use a static IP address and enter the DNS Server address manually.

	Network Configuration	Version 1.1.6
Device Discovery	HostName ALL6800	
	IP Type • Fixed IP • DHCP	
Login System	IP address : 192.168.1.100	
Network Configuration	Netmask : 255.255.255.0 Gateway IP: 192.168.1.100	
Change Password	DNS Server:	

7. Change the default administrator password.

ALLNET	
	Change Password
Device	
Discovery	
Login	
System	
	New Password :
•	
Network	Confirm Again :
Configuration	
Change	
Password	
•	
Complete	PREV APPLY END

 Finished! Access the ALLNET ALL60700 Web Administrator Interface by pressing the *Start Browser* button. You can also configure another ALLNET ALL60700 at this point by clicking the *Setup Other Device* button. Press *Exit* to exit the wizard.

	Complete		
Device			
Discovery			
Login			
System	Setup Other Device		
•			
Network Configuration	Start Browser		
Configuration			
•			
Change Password		•	
T dasword			
٢			
Complete		END	
	he ALLNET Setup Wizard is desi		

LCD Operation

The mentioned models above are equipped with an LCD on the front for easy status display and setup. There are four buttons on the front panel to control the LCD functions.

LCD Controls

Use the **Up** (\blacktriangle), **Down** (\triangledown), **Enter** (\dashv) and **Escape** (**ESC**) keys to select various configuration settings and menu options for ALLNET ALL60700 configuration.

The following table illustrates the keys on the front control panel:

	ontrols	
Icon	Function	Description
	Up Button	Select the previous configuration settings option.
▼	Down Button	USB copy confirmation display.
Ļ	Enter	Enter the selected menu option, sub-menu, or parameter setting.
ESC	Escape	Escape and return to the previous menu.

There are two modes of operation for the LCD: **Display Mode** and **Management Mode**.

Display Mode

During normal operation, the LCD will be in **Display Mode**.

Display Mode		
Item	Description	
Host Name	Current host name of the system.	
WAN/LAN1	Current WAN/LAN1 IP setting.	
LAN2	Current LAN2 IP setting.	
Link Aggregation	Current Link Aggregation status	
System Fan1	Current system fan1 status.	
System Fan2	Current system fan2 status.	

CPU Fan	Current CPU fan status	
2009/05/22 12:00	Current system time.	
Disk Info	Current status of disk slot has been installed	
RAID	Current RAID status.	
The ALLINET ALL COZOO will we have the second		

The ALLNET ALL60700 will rotate these messages every one-two seconds on the LCD display.

USB Copy

The USB Copy function enables you to copy files stored on USB devices such as USB disks and digital cameras to the ALL60700 by press button. To use USB copy, follow the steps below:

- 1. Plug your USB device into an available USB port on the Front end.
- 2. In **Display Mode**, press the **Down Button** (▼).
- 3. The LCD will display "USB Copy?"
- 4. Press **Enter** (↓) and the ALL60700 will start copying USB disks connected to the front USB port.
- 5. All of data will be copied into system folder named "USB copy".

Management Mode

During setup and configuration, the LCD will be in **Management Mode**.

To enter into Management Mode, press **Enter (**,) and an "*Enter Password"* prompt will show on the LCD.

At this time, the administrator has to enter the correct LCD password. System will check whether the correct LCD password has been entered. The default LCD password is " 0000 ". If correct password is entered, you will enter into the **Management Mode** menu.

Management Mode				
Item	Description			
WAN/LAN1 Setting	IP address and netmask of your WAN/LAN1 ports.			
LAN2 Setting	IP address and netmask of your LAN2 ports.			
Link Agg. Setting	Select Load Balance, 802.3ad or Failover.			
Change Admin Passwd	Change administrator's password for LCD operation.			
Reset to Default	Reset system to factory defaults.			
Exit	Exit Management Mode and return to Display Mode.			

NOTE	You can also change your LCD password using the Web Administration Interface by navigating to System Management >Utility>
	Administrator Password. For more on the Web Administration
	Interface, see Chapter 4: System Management.

Typical Setup Procedure

From the Web Administration Interface, you can begin to setup your ALLNET ALL60700 for use on your network. Setting up the ALLNET ALL60700 typically follows the five steps outlined below.

For more on how to use the Web Administration Interface, see **Chapter 4: Web Administration Interface**.

Step 1: Network Setup

From the Web Administration Interface, you can configure the network settings of the ALLNET ALL60700 for your network. You can access the **Network** menu from the menu bar.

For details on how to configure your network settings, refer to **Chapter 4: System Network** .

Step 2: RAID Creation

Next, administrators can configure their preferred RAID setting and build their RAID volume. You can access RAID settings from the menu bar of the Web Administration Interface by navigating to **Storage Management > RAID Configuration**.

For more information on configuring RAID, see Chapter 4: System Management > RAID Configuration.

Don't know which RAID level to use? Find out more about the different RAID levels from **Appendix** A: **RAID Basics**.

Step 3: Create Local Users or Setup Authentication

Once the RAID is ready, you can begin to create local users for ALLNET ALL60700, or choose to setup authentication protocols such as Active Directory (AD).

For more on managing users, go to **Chapter 4:User and Group Authentication**.

For more information on configuring Active Directory, see Chapter 4: User and Group Authentication > ADS/NT Support.

For information about the benefits of Active Directory, see **Appendix B: Active Directory Basics**.

Step 4: Create Folders and Set Up ACLs

Once users are introduced into your network, you can begin to create various folders on the ALLNET ALL60700 and control user access to each using Folder Access Control Lists.

More information on managing folders, see Chapter 4: Storage Management > Share Folder .

To find out about configuring Folder Access Control Lists, see **Chapter 4: Storage Management > Share Folder > Folder Access Control List (ACL)**.

Step 5: Start Services

Finally, you can start to setup the different services of ALLNET ALL60700 for the users on your network. You can find out more about each of these services by clicking below:

SMB/CIFS

Apple File Protocol (AFP) Network File System (NFS) File Transfer Protocol (FTP) iTunes Server Printer Server Photo Server

Chapter 4: System Administration

Overview

The ALLNET ALL60700 provides an easily accessible **Web Administration Interface**. With it, you can configure and monitor the ALLNET ALL60700 anywhere on the network.

Web Administration Interface

Make sure your network is connected to the Internet. To access ALLNET ALL60700 **Web Administration Interface**:

1. Type the ALLNET ALL60700 IP address into your browser. (Default IP address is http://192.168.1.100)





Your computer's network IP address must be on the same subnet as the ALLNET IP storage. If the ALLNET IP storage has default IP address of 192.168.1.100, your managing PC IP address must be 192.168.1.x, where x is a number between 1 and 254, but not *100*.

2. Login to the system using the administrator user name and password. The factory defaults are:

User Name: admin Password: admin

% If you changed your password in the setup wizard, use the new password.

Following by disclaim page, you will see the **Web Administration Interface**. From here, you can configure and monitor virtually every aspect of the ALLNET ALL60700 from anywhere on the network.

My Favorite

The user interface with "My Favorite" shortcut is allowed user to designate often used items and have them display on the main screen area. The figure below displays 12 default favorite functions.



Administrators can add or remove favorite functions to My Favorites by right clicking the mouse on the menu tree.

The other way administrators can add favorite functions is by clicking the "Add Favorite" icon in each function screen. Please refer figure below in red circuit icon.

To return to the favorite screen, simply click "My Favorite" located at the left hand corner of the main screen.



🛯 My favorite		
Setting sy	stem time	
Date:	01/29/2010	
Time:	21:44	

Menu Bar

The **Menu Bar** is where you will find all of the information screens and system settings of ALLNET ALL60700. The various settings are placed in the following groups on the menu bar:



Morry Dov	
Menu Bar	
Item	Description
System Information	Current system status of the ALLNET ALL60700.
System Management	Various ALLNET ALL60700 system settings and information.
System Network	Information and settings for network connections, as well as
	various services of the ALLNET ALL60700.
Storage	Information and settings for storage devices installed into the
	ALLNET ALL60700.
User and Group Authentication	Allows configuration of users and groups.
Application Server	Printer Server and iTunes Server to set up of the ALLNET
	ALL60700.
Module Management	System and user Module to install of the ALLNET ALL60700.
Backup	Category of Backup Features set up of the ALLNET ALL60700.

Moving your cursor over any of these items will display the dropdown menu selections for each group.

In the following sections, you will find detailed explanations of each function, and how to configure your ALLNET ALL60700.

Message Bar

You can get information about system status quickly by moving mouse over.



	Message Bar	
Item	Status	Description
	RAID Information.	Display the status of created RAID volume. Click to go to RAID information page as short cut.
O	Disks Information.	Display the status of disks installed in the system. Click to go to Disk information page as short cut.
2	FAN.	Display system FAN Status. Click to go to System Status page as short cut.
*	Network.	Green: Connection to network is normal. Red: abnormal connection to the network

Logout



Click to logout Web Administration Interface.

Language Selection

The ALLNET ALL60700 supports multiple Languages, including:

- English
- Japanese
- Traditional Chinese
- Simplified Chinese
- French
- German
- Italian
- Korean
- Spanish
- Russia
- Polish
- Portugal

On the menu bar, click **Language** and the **selection** list appears. This user interface will switch to selected Language for ALLNET ALL60700.



System Information

Information provides viewing on current Product info, System Status, Service Status and Logs.

The menu bar allows you to see various aspects of the ALLNET ALL60700. From here, you can discover the status of the ALLNET ALL60700, and also other details.

Product Information

Once you login, you will first see the basic **Product Information** screen providing **Manufacturer**, **Product No.**, **Firmware Version**, and **System Up Time** information.

System Information	Product Information	5n	
Unfo Status	Manufacturer	ALLNET	
Logs	Product No.	ALL60800	
	Firmware Version	3.04.03	
	Up Time	6 hours 14 minutes	

Product Information			
Item	Description		
Manufacturer	Displays the name of the system manufacturer.		
Product No.	Shows the model number of the system.		
Firmware version	Shows the current firmware version.		
Up time	Displays the total run time of the system.		

System/Service Status

From the **Status** menu, choose the **System** item, **System Status** and **Service Status** screens appear. These screens provide basic system and service status information.

Menu		My favorite	
J System Information		— System Status —	
- 🛄 Info - 🖉 Status		CPU Loading(%)	0%
Logs		CPU Fan Speed	ОК
		System Fan 1 Speed	ОК
		System Fan 2 Speed	ОК
		Up Time	6 hours 22 minutes
		AFP Status	Stop
		AFP Status	Stop
🗙 System Management 🔹	F	NFS Status	Stop
System Network	7	SMB/CIFS Status	Stop
Storage		FTP Status	Stop
		TFTP Status	Stop
Ser and Group Authentication	7	Nsync Status	Stop
Application Server	<u>F</u>	UPnP Status	Stop
💕 Module management 🔹	7	SNMP	Stop
👫 Backup 📑	7		

System Status		
Item	Description	
CPU Loading (%)	Displays current CPU workload of the ALLNET ALL60700.	
CPU Fan Speed	Displays current CPU fan status.	
System Fan Speed	Displays the current status of the system fan.	
Up Time	Shows how long the system has been up and running.	

Service Status		
Item	Description	
AFP Status	The status of the Apple Filing Protocol server.	
NFS Status	The status of the Network File Service Server.	
SMB/CIFS Status	The status of the SMB/CIFS server.	
FTP Status	The status of the FTP server.	
TFTP Status	The status of the TFTP server.	
Media Server	The status of the Media Server	
Nsync Status	The status of the Nsync server.	
UPnP Status	The status of the UPnP service.	
SNMP	The status of the SNMP service.	

Logs

From the **System Information** menu, choose the **Logs** item and the **System Logs** screen appears. This screen shows a history of system usage and important events such as disk status, network information, and system booting. See the following table for a detailed description of each item:

Menu	1				
System Information		System Logs			
4 Info		O att inter Wern SError			
Status Logs		Download All Log File	Cruncate All Log File The number of lines per page 13		
Co-ine Register		Tine -	Logs Information		
		2009/05/15 16:28:50	7700 : The system N7700 is recovering the RAID and rebuilding is in progress.		
		2009/05/13 15:55:16	7700 : Disk 4 on N7700 has been added.		
			7700 : Disk 3 on N7700 has been added.		
		2009/05/13 15:39:43	7700 : Disk 2 on N7700 has been added.		
		2009/05/13 14:08:36	7700 : User admin logged in from 172 16 65 133		
		2009/05/13 13:45:03	7700 : User admin logged in from 172.16.65.156		
	/	2009/05/13 11:11:45	7700 : User admin logged in from 172.16.65.172		
	/	2009/05/13 09:59:19	7700 : User admin logged in from 172.16.65.138		
	/	2009:05/13 09:41:26	7700 : User admin logged in from 172.16.65.138		
		2009/05/13 09:32:40	7700 : User admin logged in from 172.16.65.138		
		2007/01/02 02:35:01	7700 : User admin logged in from 172.16.66.38		
	/	2007/01/02 02:34:26	7700 : User admin logged in from 172.16.66.38		
		2007/01/02 02:33:06	7700 : N7700 beet		
		2007/01/02 02:33:06		Displaying logs 1 - 13 of 13	
Time 💌	✓ Logs Infor	14 4 Page 1 of 1		Displaying logs 1 - 13 of 13	
30	Logs Info	mation		Displaying logs 1 - 13 of 13	
Time - 2009/05/25 13:44:51 2009/05/25 13:41:29	Sort Aso	rmation n logged	· · · ·	Displaying logs 1 - 13 of 13	
2009/05/25 13:44:51	Sort Aso	rmation cending n logged scending m n5500	d in from 172.16.65.107	Displaying logs 1 - 13 of 13	
2009/05/25 13:44:51 2009/05/25 13:41:29	Sort Aso	mation cending n logged scending m n5500 m n5500	d in from 172.16.65.107 0-dual01 found UPS is unavailable.	Displaying logs 1 - 13 of 13	
2009/05/25 13:44:51 2009/05/25 13:41:29 2009/05/25 13:36:24	Sort Aso X Sort Des Columns	rmation cending n logged scending m n5500 m n5500 m n5500 m n5500	d in from 172.16.65.107 0-dual01 found UPS is unavailable. 0-dual01 found UPS is unavailable.	Displaying logs 1 - 13 of 13	
2009/05/25 13:44:51 2009/05/25 13:41:29 2009/05/25 13:36:24 2009/05/25 13:31:24	Sort Aso Sort Des Columns 5500-dual	conding n logged scending n n 5500 scending Tr 01 : The syste V La	d in from 172.16.65.107 0-dual01 found UPS is unavailable. 0-dual01 found UPS is unavailable. Time s unavailable.	Displaying logs 1 - 13 of 13	
2009/05/25 13:44:51 2009/05/25 13:41:29 2009/05/25 13:36:24 2009/05/25 13:31:24 2009/05/25 13:26:18	Sort Asc Sort Des Columns 5500-dualt 5500-dualt	mation cending n logged scending m n5500 m n5500 scending T 01 : The syste V La 01 : The system n5500	d in from 172.16.65.107 0-dual01 found UPS is unavailable. 0-dual01 found UPS is unavailable. 0 ime sunavailable. 0 ogs Information sunavailable.	Displaying logs 1 - 13 of 13	
2009/05/25 13:44:51 2009/05/25 13:41:29 2009/05/25 13:36:24 2009/05/25 13:31:24 2009/05/25 13:26:18 2009/05/25 13:21:13	Sort Ase X Sort Des Columns 5500-duald 5500-duald	cending n logged scending n n5500 m n5	d in from 172.16.65.1 0-dual01 found UPS is unavailable. 0gs Information 0-dual01 found UPS is unavailable. unavailable. unavailable. unavailable.	Displaying logs 1 - 13 of 13	

System Logs				
Item	Description			
All	Provides all log information including system messages, warning			
	messages and error messages.			
INFO	Records information about system messages.			
WARN	Shows only warning messages.			
ERROR	Shows only error messages.			
Download All Log File	Export all logs to an external file.			
Truncate All Log File	Clear all log files.			
The number of lines per	Specify desired number of lines to display per page.			
page 🗌				
Sort Ascending	Shows logs by date in ascending order.			
Sort Descending	Shows logs by date in descending order.			
<< < > >>	Use the forward (> >>) and backward (<< <) buttons to			
	browse the log pages.			
	Re-loading logs.			
2				

See the following table for a detailed description of each item:

System Management

The **System Management** menu gives you a wealth of settings that you can use to configure your ALLNET ALL60700 system administration functions. You can set up system time, system notifications, and even upgrade firmware from this menu.

Time: Setting system time

From the **time** menu, choose the **Time** item and the **Time** screen appears. Set the desired **Date**, **Time**, and **Time Zone**. You can also elect to synchronize the system time on ALLNET ALL60700 with an **NTP (Network Time Protocol) Server**.

Menü	My favorite	
📜 System Information	Setting	system time
🗙 System Management	Date:	07/20/2010
Votification Vo	Time: Time Zon Act as NT Server: Sync with external I server:	P C Enable Disable
System Network		© No
Storage	7	
Subser and Group Authentication	- App	¥

See the following table for a detailed description of each item:

Time				
Item	Description			
Date	Sets the system date.			
Time	Sets the system time.			
Time Zone	Sets the system time zone.			
Act as NTP Server	Select <i>Enable</i> to synchronize with the NTP server.			
	Select Disable to close the NTP server synchronization.			
Sync with external NTP	Select YES to allow ALLNET ALL60700 to synchronize with an NTP			
Server	server of your choice. Press Apply to change.			

If an NTP server is selected, please make sure your ALLNET IP storage has been setup to access the NTP server.

Notification configuration

From the menu, choose the **Notification** item, and the **Notification Configuration** screen appears. This screen lets you have ALLNET ALL60700 notify you in case of any system malfunction. Press **Apply** to confirm all settings. See following table for a detailed description of each item.

Menu	🏓 My favorite
Menu (() System Information () System Management () System Management () System Management () System Management () System Management () Management () System Management () System Value () System V	My favorite Notification Configuration Beep Notification Beep Notification Ernail Notification Ernail Notification Ernail Notification Port: Auth Type: SMTP Account ID: Account Password: E-Mail From: Receiver's E-Mail Address 1: Receiver's E-Mail Address 2: Receiver's E-Mail Address 3: Receiver's E-Mail Address 4: Substant Address 4: Substant Address 4: Substant Address 4: Substant Address 4: Substant Address 4:
	EAbil Terr. Apply

Notification Configuration			
Item	Description		
Beep Notification	Enable or disable the system beeper that beeps when a problem		
	occurs.		
Email Notification	Enable or disable email notifications of system problems.		
SMTP Server	Specifies the hostname/IP address of the SMTP server.		
Port	Specifies the port to send outgoing notification emails.		
Auth Type	Select the SMTP Server account authentication type.		
SMTP Account ID	Set the SMTP Server Email account ID.		
Account Password	Enter a new password.		
E-mail From	Set email address to send email.		
Receiver's E-mail	Add one or more recipient's email addresses to receive email		
Address (1,2,3,4)	.3,4) notifications.		

NOTE

Consult with your mail server administrator for email server information.

Firmware Upgrade

From the menu, choose the *Firmware Upgrade* item and the **Firmware Upgrade** screen appears.

Menu	22	🧶 My favorite	(G 📑
System Information	1	Firmware Upgrade	
V System Management		firmware: Select a firmware file Apply	

Follow the steps below to upgrade your firmware:

- 1. Use the **Browse** button to find the firmware file.
- 2. Press **Apply**.
- 3. The beeper beeps and the Busy LED blinks until the upgrade is complete.

ΝΟΤΕ	 The beeper only beeps if it is enabled in the System Notification menu. Check Thecus website for the latest firmware release and release notes. Downgrading firmware is not permitted. 			
WARNING	Do not turns off the system during the firmware upgrade process. This will lead to a catastrophic result that may render the system inoperable.			

UPS Setting

The ALLNET ALL60700 can also support various uninterruptible power supply unit via either "Serial" or "USB" interface (depend on model) to provide extra data security and accessibility in the case of a power failure.

From the **Status** menu, choose the **UPS** item and the **UPS Setting** screen appears. Make any changes you wish, and press **Apply** to confirm changes.

Menu	86	🥔 My favorite
J System Information		UPS Setting
🛠 System Management	-	UPS monitoring: O Enable 🛞 Disable
Time Notification Firmware Upgrade	^	Manufacture: Poweroom 💌 Model: SME 💌
Schedule On/Off	×	(" means the product has been tested for Compatibility) Battery Status: N/A Power: N/A
System Network	•	Seconds between power failure and first notification
Storage		Seconds between subsequence power failure notifications 20 s Shutdown the system when the battery charge is less than 5 %
Subser and Group Authentication		Apply
	100	

See the following table for a detailed description of each item.

UPS Setting	
Item	Description
UPS Monitoring	Enable or disable UPS monitoring.
Manufacturer	Choose the UPS manufacturer from the dropdowns.
Model	Choose the UPS model number from the
	dropdowns.
Battery Status	Current status of the UPS battery
Power	Current status of the power being supplied to the
	UPS
Seconds between power failure and	Delay between power failure and first notification in
first notification	seconds.

Seconds between subsequent power failure notifications	Delay between subsequent notifications in seconds.
Shutdown the system when the	Amount of UPS battery remaining before system
battery charge is less than	should auto-shutdown.
Apply	Press Apply to save your changes.

Schedule Power On/Off

Using the ALLNET ALL60700 System Management, you can save energy and money by scheduling the ALLNET ALL60700 to turn itself on and off during certain times of the day.

From the menu, choose the **Schedule Power On/Off** item and the **Schedule Power On/Off** screen appears.

To designate a schedule for the ALLNET ALL60700 to turn on and off, first enable the feature by checking the **Enable Schedule Power On/Off** checkbox.

Then, simply choose an on and off time for each day of the week that you would like to designate a schedule by using the various dropdowns.

Finally, click **Apply** to save your changes.

Menu	🕊 👹 My favorite						
📜 System Information	Schedule Power On/Off						
System Management	Enable Schedule Power On/Off						
Notification		Action	Time	Action	Time		
Schedule On/Off	Sunday:	Nume 💌	00.00	Nime 💌	00.00		
SWake Up on LAN	Monday:	Name 💌	00.00	Num 💌	00.00		
SNMP Utity	Tuesday:	Name 💌	00.00	Num 💌	00.00		
Administrator Password	Wednesday:	Rem 💌	00.00	Rom	00.00		
Factory Default	Thursday:	Now 📩	00.00	Nom 📩	00.00		
🙀 File system Check	Friday:	Near 💌	00.00	None 💌	00.00		
	Saturday:	Here 💌	00.00	Netar 💌	00.00		
	Apply						
System Network	-						

Example - Monday: On: 8:00; Off: 16:00

System will turn on at 8:00 AM on Monday, and off at 16:00 on Monday. System will turn on for the rest of the week.

If you choose an on time, but do not assign an off time, the system will turn on and remain on until a scheduled off time is reached, or if the unit is shutdown manually.

Example - Monday: On: 8:00

System will turn on at 8:00 AM on Monday, and will not shut down unless powered down manually.

You may also choose two on times or two off times on a particular day, and the system will act accordingly.

Example - Monday: Off: 8:00; Off: 16:00

System will turn off at 8:00 AM on Monday. System will turn off at 16:00 PM on Monday, if it was on. If the system was already off at 16:00 PM on Monday, system will stay off.

Wake-Up On LAN (WOL)

The ALLNET ALL60700 has the ability to be awoken from sleep mode via WAN/LAN1 port.

Menu		My favorite
System Information		Wake-up On Lan
💥 System Management	1	WOL Service: 🕐 Enable 🛞 Disable
Time Notification Firmware Upgrade Schedule On/Off	•	Apply
Wake Up on LAN	~	

From the menu, choose the **WOL** item, and the **Wake-up On LAN** screen appears. From here, you can **Enable** or **Disable**.

Wake-up On I	Wake-up On LAN Configuration		
Item	Description		
WOL Service	Enable or Disable WOL service		
Apply	Click Apply to save changes.		

SNMP Support

From the menu, choose the **SNMP** item and the **SNMP Support** screen appears. You could enable the SNMP function and filled in the related information in each fields. With the SNMP management software could get system basic information.

Menu	25	🤎 My favorite	
System Information	•	SNMP Support SNMP Service: © Enable @ Disable	
Time Notification Firmware Upgrade Schedule On/Off UPS Wake Up on LAN SIMP System Network	•	Read Community: (Alow 0~9, a~2, System Contact:	A~Z, -, _)

From the menu, choose the **SNMP** item, and the **SNMP Support** screen appears. From here, you can **Enable** or **Disable**.

Utility

[•] Administrator password

From the menu, choose the **Administrator Password** item and the **Change Administrator Password** screen appears. Enter a new password in the **New Password** box and confirm your new password in the **Confirm Password** box. Press **Apply** to confirm password changes. There is also **password** for enter **LCD** setting you could setup here. Enter a new password in the **New Password** box and confirm your new password in the **Confirm Password** box. Press **Apply** to confirm password changes.

Menu	🚳 🤎 My favorite
🕕 System Information	Change Administrator Password
💥 System Management	New Password:
SIMP Administrator Password Config Mgmt Factory Default Reboot & Shutdown File system Check	Confirm Password:
System Network	New Password: Confrm
E Storage	Password:
📥 User and Group Authentication	Apply
Application Server	

See the following table for a detailed description of each item.

Change Administrator and LCD Entry Password			
Item	Description		
New Password	Type in a new administrator password.		
Confirm Password	Type the new password again to confirm.		
Apply	Press this to save your changes.		

[·] Config Mgmt

From the menu, choose the *Config Mgmt* item and the **System Configuration Download/Upload** screen appears. From here, you can download or upload stored system configurations.

Menu	er.	🌻 My favorite
i System Information	System Configuration Download/Upload	
💥 System Management	-	
SIIMP Utity Config Mgmt Factory Default @ Reboot & Shutdown	*	Upload: Please choose a file to upload.

See the following table for a detailed description of each item.

System Configuration Download/Upload		
Item	Description	
Download	Save and export the current system configuration.	
Upload	Import a saved configuration file to overwrite current system configuration.	

NOTE Backing up your system configuration is a great way to ensure that you can revert to a working configuration when you are experimenting with new system settings. The system configuration you have backup can be only restore in same firmware version. And the backup details have excluded user/group accounts.

[•] Factory default

From the menu, choose the **Factory Default** item and the **Reset to Factory Default** screen appears. Press **Apply** to reset ALLNET ALL60700 to factory default settings.

Menu	(C	My favorite
🕕 System Information		Reset To Factory Default
💥 System Management	1	
SNMP Utility Administrator Password Config Mgmt Factory Default OReboot & Shutdown	-	Apply
File system Check	~	
Reset	ting to fac	ctory defaults will not erase the data stored in the hard disks, bu
VAKNING	-	the settings to the factory default values.

[•] Reboot & Shutdown

From the menu, choose **Reboot & Shutdown** item, and the **Shutdown/Reboot System** screen appears. Press **Reboot** to restart the system or **Shutdown** to turn the system off.

Menu		👎 My favorite
📕 System Information	(2)	Shutdown/Reboot System
💥 System Management	120	
SNMP Utilty Config Mgmt Factory Default Reboot & Shutdown	• • • • • • • • • • • • • • • • • • •	Shutdown Reboot

[·] File System check

The File System Check allows you to perform a check on the integrity of your disks' file system. Under the menu, click *File system Check* and the **File System Check** prompt appears.



To perform a file system check, click **Apply**.

Once clicked, the following prompt will appear:



Click **Yes** to reboot the system.

File System Check	File System Check
eboot	Reboot
64	Done.

Once the system has rebooted, you will be returned to the **File System Check** prompt. There you will see the available RAID volumes to run the file system check on except ZFS volume, ZFS has no need to perform file system check. Check the desired RAID volumes and click **Next** to proceed with the file system check. Click **Reboot** to reboot without running the check.

File System Check FS is not need file sy					
RAID Level	Disks	Status	Filesystem Status	Data Capacity	Last Check Time
RAID5	4	Healthy	Normal	0.2 GB / 41.8 GB	
cus.com			- U		
File System Check					
CUS.COM File System Check ZFS is not need file s RAID Level		Status	Filesystem Status	Data Copacity	Last Cheek Time

Next Reboot

Once you click **Next**, you will see the following screen:

štatus:	Press Start to Begin	
Latest 20 lines Information:		
Result:		*

Click **Start** to begin the file system check. Click **Reboot** to reboot the system. When the file system check is run, the system will show 20 lines of information until it is complete. Once complete, the results will be shown at the bottom.

atest 20 lines Information:	12009/6/8 14:5:331 4 8 8
	[2009/6/8 14:5:33] Pass 5: Checking group summary information
	[2009/6/8 14:5:33] 5 0 16
	[2009/6/8 14:5:33] 5 1 16
	[2009/6/8 14:5:33] 5 2 16
	[2009/6/8 14:5:33] 5 3 16
	[2009/6/8 14:5:33] 5 4 16
	[2009/6/8 14:5:33] 5 5 16
	[2009/6/8 14:5:33] 5 6 16
	[2009/6/8 14:5:33] 5 7 16
	[2009/6/8 14:5:33] 5 8 16
	[2009/6/8 14:5:33] 5 9 16
	[2009/6/8 14:5:33] 5 10 16
	[2009/6/8 14:5:33] 5 11 16
	[2009/6/8 14:5:33] 5 12 16
	[2009/6/8 14:5:33] 5 13 16
	[2009/6/8 14:5:33] 5 14 16 [2009/6/8 14:5:33] 5 15 16
	[2009/6/8 14:5:33] 5 16 16
	[2009/6/8 14:5:33] /dev/vg0/syslv: 33/262144 files (3.0% non-
	contiguous), 16763/262144 blocks
Cesult:	RAID [1,2,3,4,5] System Volume : Exit Code = 0 , No
	errors.
	RAID [1,2,3,4,5] Data Volume : Exit Code = 0 , No errors.
Start Reboot	

System Network

Use the **System Network** menu to make network configuration settings as well as service support settings.

WAN/LAN1

WAN/LAN1 Configuration

From the **System Network** menu, choose **WAN/LAN1**, and the **WAN/LAN1 Configuration** screen appears. This screen displays the network parameters of the WAN/LAN1 connection. You may change any of these items and press **Apply** to confirm your settings. See a description of each item in the following table:

lenu	🧭 🤎 My favorite
1 System Information	WAN / LAN1 Configuration
💥 System Management	Host Name: IN4100PROwx Domain Name: thecus.com
🚰 System Netwark	WINS Server 1: WINS Server 2:
WAN / LAN1	MAC Address: 00:14:FD:10:DA:20
Samba / CIFS	Link Detected: yes
N AFP	Link Speed: 1000Mb/s
NPS FTP	Jumbo Frame Disable Y Support:
Media Server	IP Sharing Mode: O Enable O Disable
CHTTP / Web Disk	Link Aggregation: Disable w
Nsync Target	Set IP Address by:
Bonjour TETP	Static Dynamic
as in it.	
	IP: 172.16.64.151
	Netmask: 255.255.252.0 Gateway: 172.16.66.135
	DNS Server: 172.16.66.244
	168.95.1.1
Storage	±
Ser and Group Authentication	
Application Server	Apply

WAN/LAN1 Configuration		
Item	Description	
Host name	Host name that identifies the ALLNET ALL60700 on the network.	
Domain name	Specifies the domain name of ALLNET ALL60700.	
WINS Server	To set a server name for NetBIOS computer.	
MAC Address	MAC address of the network interface.	
Jumbo Frame Support	Enable or disable Jumbo Frame Support of the WAN/LAN1 interface on your ALLNET ALL60700.	
IP Sharing Mode	When enabled, PCs connected to the LAN2 port will be able to access the WAN/LAN1.	
Link Aggregation	Specifies whether WAN/LAN1 and LAN2 ports will be aggregated and act as one port. There are 6 modes can be choose from: Load Balance/Fail-over/Balance-XOR/802.3ad/Balance-TLB/Balance-ALB	
Set IP Address by: Static / Dynamic	You can choose a static IP or Dynamic IP, and input your network configuration	
IP	IP address of the WAN/LAN1 interface.	
Netmask	Network mask, which is generally: 255.255.255.0	
Gateway	Default Gateway IP address.	
DNS Server	Domain Name Service (DNS) server IP address.	

ΝΟΤΕ	 Only use Jumbo Frame settings when operating in a Gigabit environment where all other clients have Jumbo Frame Setting enabled. Enabling DHCP automatically turns on UPnP— see the Service Support Screen. If you are only using the WAN/LAN1 port, we suggest that you disable IP Sharing Mode. This will result in higher throughput. A correct DNS setting is vital to networks services, such as SMTP and NTP. To use the Link Aggregation with "802.3ad selected" feature, please make sure the networking equipment on the other end of Ethernet cable also supports 802.3ad protocol.
WARNING	Most Fast Ethernet (10/100) Switches/Routers do not support Jumbo Frame and you will not be able to connect to your N8800 after Jumbo Frame is turned on. If this happens, turn off the ALL60700. Then, insert USB disk with factory reset utility included and power on the ALL60700. Till the system power on complete then it will bring your system settings back to factory default.

LAN2

LAN2 Configuration

The ALLNET ALL60700 supports two Gigabit Ethernet ports for higher service availability. To configure these ports, choose *LAN2* from the **System Network** menu, and the **LAN2 Configuration** screen appears. Press *Apply* to save your changes.

LAN2 Configural	tion
MAC Address:	00:14:FD:10:DA:21
Jumbo Frame Support:	Disable 🖌
IP:	192.168.2.254
Netmask:	255.255.255.0
Gateway: Unk Detected: Unk Speed:	no
DHCP Server Co	nfiguration O Enable ® Disable
Start IP:	192.168.2.1
End IP:	192.168.2.100
DNS Server:	172.16.66.244
	MAC Address: Jumbo Frame Support: IP; Netmask: Gateway: Link Detected: Link Speed: DHCP Server Co DHCP Server; Start IP; End IP;

LAN2 Configuration		
Item	Description	
MAC Address	Displays the MAC address of the LAN2 interface.	
Jumbo Frame Support	Enable or disable Jumbo Frame Support on the LAN2 interface.	
IP	Specifies the IP address of the LAN2 interface.	
Netmask	Specifies the Network Mask of the LAN2 interface.	
Gateway	When ALLNET NAS as a DHCP server from LAN2, it can have another route to balance traffic bandwidth for its DHCP clients	
Link Detected	Specifies the LAN2 port link status	

1 1/10 / 1001 055	Displays the line dualess of the Exit interface.	
Jumbo Frame Support	Enable or disable Jumbo Frame Support on the LAN2 interface.	
IP	Specifies the IP address of the LAN2 interface.	
Netmask	Specifies the Network Mask of the LAN2 interface.	
Gateway	When ALLNET NAS as a DHCP server from LAN2, it can have another route to balance traffic bandwidth for its DHCP clients	
Link Detected	Specifies the LAN2 port link status	
Lick Speed	Specifies the LAN2 port link speed	
	efore enabling Jumbo Frame Support, please make sure your network equipment	

NOTE	supports Jumbo Frame. If your equipment is incompatible, you might not be able to connect to your Thecus IP storage.
NOTE	If the IP sharing mode setting is set to "Enable" under WAN/LAN21 port, then this 2 nd gateway cannot be configured.

.DHCP Server Configuration

A DHCP server can be configured to assign IP addresses to devices connected to the LAN2 port. To configure these ports, choose *LAN2* from the **System Network** menu.

DHCP Configuration				
Item	Description			
DHCP Server	Enable or disable the DHCP server to automatically assign IP			
	address to PCs connected to the LAN2 interface.			
Start IP	Specifies the starting IP address of the DHCP range.			
End IP	Specifies the ending IP address of the DHCP range.			
DNS Server	Displayed the DNS server IP address.			
NOTE	The IP Segment of WAN/LAN1 and LAN2 should not overlap.			

WARNING

The IP address of the LAN2 interface should not be in the range of the Start IP address and End IP address.

Samba / CIFS

There are 5 options is currently allow Admin to Enable/Disable to operate ALLNET ALL60700 associated with Samba / CIFS protocol. With the option changed, it will need to reboot system to activate.

Menu	25	Re My favorite			
J System Information	(4)	Samba / CIFS			
🛠 System Management		Samba Service:	Enable	O Disable	
System Network	- 21	File Access Cache:	Enable	🗇 Disable	
WAN / LAN1	^	Samba Recycle Bin:	🔿 Enable	Oisable	
Samba / CIFS	=	Samba Anonymous Login Authentication:	🗢 Enable	Disable	
INFS INFS	-	Samba is Native Mode:	Yes(Native Mode)	🔘 No(Compatible Mode)	
SFTP SHTTP / Web Disk		UNIX Extensions:	Enable	🙆 Disable	
Storage	.e:	Apply			

Samba Service

Used for letting the operating system of UNIX series and SMB/CIFS of Microsoft Windows operating system (Server Message Block / Common Internet File System).Do the link in network protocol. Enable or Disable SMB/CIFS protocol for Windows, Apple, Unix drive mapping.

NOTE • In some environments, due to security concerns, you may wish to disable SMB/CIFS as a precaution against computer viruses.

File Access Cache

File Access Cache is default **Enable**. This option will help to increase the performance while single client access share folder in writing under SMB/CIFS protocol.

Samba Recycle Bin

The ALLNET ALL60700 is supported recycle bin via SMB/CIFS protocol. Simply enable it then all of deleted files/folders will reside in the ".recycle" folder with hidden attribution in each share.



In general, Windows has default to invisible all of hidden folders/files. So please enable this option to view ".recycle" folder.

Samba Anonymous Login Authentication

To enable this option, no matter there is share folder has been created in public access. The user account and password is needed from system to access under SMB/CIFS protocol. On the other hand, no more anonymous login is allowed.

Samba is Native mode

The ALLNET ALL60700 is supported Samba mode options. In the ADS environment with "Native" mode selected then ALLNET ALL60700 is capable to become local master position.

UNIX Extension

The default is enable for Samba usage, with situation using Mac OSX with smb connection may have permission issue. When it happened, please setup "UNIX Extension" disable to get issue solved.

AFP (Apple Network Setup)

From the **System Network** menu, choose the **AFP** item, and the **AFP Support** screen appears. This screen displays the configuration items for the Apple Filing Protocol. You can change any of these items and press **Apply** to confirm your settings.

Menu	ec	🥮 My favorite
System Information	*)	AFP Support
System Network	-	MAC CHARSET: UTF-S Y ZONE: *
Samba / CIFS		Time Machine: O Enable O Disable
NFS FTP Media Server	~	Apply

A description of each item follows:

Apple Network Configuration		
Item	Description	
AFP Server	Enable or disable Apple File Service to use ALLNET ALL60700 with	
	MAC OS-based systems.	
MAC CHARSET	Specifics the code page from drop down list	
Zone	Specifies Zone for Applet Talk service.	
	If your AppleTalk network uses extended networks and is assigned	
	with multiple zones, assign a zone name to ALLNET ALL60700. If	
	you do not want to assign a network zone, enter an asterisk (*) to	
	use the default setting.	
Time Machine	Enable checked box while you like to backup you MAC system to	
	have ALLNET ALL60700 as MAC time machine	

NFS Setup

From the **System Network** menu, choose the **NFS** item, and the **NFS Support** screen appears. The ALLNET ALL60700 can act as an NFS server, enabling users to download and upload files with the favorite NFS clients. Press **Apply** to confirm your settings.

Menu	25	💭 My favorite
📜 System Information	٠	NFS Support
💥 System Management	÷	NFS: 🕐 Enable 💿 Disable
System Network	E	
WAN LAN Samba / CIFS AFP NES FTP	*	Apply

A description of each item follows:

NFS Server Setting		
Item	Description	
NFS	Enable or Disable NFS support.	
Apply	Click Apply to save your changes.	

FTP

ALLNET ALL60700 can act as a FTP server, enabling users to download and upload files with their favorite FTP programs. From the **System Network** menu, choose the **FTP** item, and the **FTP** screen appears. You can change any of these items and press **Apply** to confirm your settings.

Menu	83	🧶 My favorite
🗾 System Information		FTP
🗙 System Management	.*)	FTP:
System Network	- 3	Secure FTP O Enable O Disable
WAN	^	(Explicit):
AN Comba / CTC		Port: 21
- Samba / CIFS AFP		FTP ENCODE: UTF-8 Y
RANES	-	Allow Anonymous Upload Download
FTP Media Selver		Auto Rename:
Storage		Upload Bandwidth:
Ser and Group Authentication		Download Unlimited Bandwidth:
Application Server	<u>.</u>	
🗬 Module management	œ.	Apply
	1111	10.1

A description of each item follows:

FTP	
Item	Description
FTP	Enable FTP Service on ALLNET ALL60700.
Security FTP	Enable or disable Security FTP, be sure the client FTP software
	has also security FTP setting enabled.
Port	Specifies the port number of an incoming connection on a
	non-standard port.
FTP ENCODE	If your FTP client or operating system does not support Unicode

(e.g. Windows® 95/98/ME or MAC OS9/8), select the same
encoding as your OS here in order to properly view the files and
directories on the server. Available options are BIG5, HZ,
GB2312, GB18030, ISO, EUC-JP, SHIFT-JIS and UTF-8.
Upload/Download: Allow anonymous FTP users to upload or
download files to/from public folders.
Download: Allow anonymous FTP users to download files from
public folders.
No access: Block anonymous FTP user access.
If checked, the system will automatically rename files that are
uploaded with a duplicate file name. The renaming scheme is
[filename].#, where # represents an integer.
You may set the maximum bandwidth allocated to file uploads.
Selections include Unlimited, 1, 2, 4, 8, 16 and 32 MB/s.
You may set the maximum bandwidth allocated to file
downloads. Selections include Unlimited, 1, 2, 4, 8, 16 and 32
MB/s.
_

To access the share folder on ALLNET ALL60700, use the appropriate user login and password set up on the **Users** page. Access control to each share folder is set up on the **ACL** page (*Storage Management* > **Shore** *Folder* > *ACL*).

HTTP/ Web Disk

From the **System Network** menu, choose the **HTTP/ Web Disk** item, and the **Web Disk (HTTP) Support** screen appears. This screen displays the service support parameters of the system. You can change any of these items and press **Apply** to confirm your settings.

Menu		🧶 My favorite
🕖 System Information	*	WebDisk (HTTP) Support
💥 System Management	.±1	Sharing: 💿 Enable 💿 Disable
System Network	-	Port: S0
MFS FTP HTTP / Web Disk HTTP / Web Disk	~	Secure WebDisk (Secure HTTP) Support Sharing: Port:
Storage	31	Apply
Subser and Group Authentication	.*1	

A description of each item follows:

Web Service	
Item	Description
HTTP (WebDisk) Support	Enable or disable WebDisk support. Enter the port number if
	this option is enabled. The port number is default 80.
HTTPs (Secure WebDisk)	Enable or disable secure WebDisk support. Enter the port if this
Support	option is enabled.
	•

ΝΟΤΕ	Disable HTTP support and Enable Secure HTTP support to guarantee
	secure access.

UPnP

This device supports UPnP Media server, which allows users to play media files with UPnP client (ex. DMA devices). Enable or disable Universal Plug and Play protocol. UPnP helps to find the IP address of ALLNET ALL60700.

Menu	(C	My favorite	
📜 System Information		- UPnP	
💥 System Management	.•)	UPnP: 📀 Enable	Olisable
System Network	3	Description: IP Storage S	Server 🙆
FTP	^		
Media Server		Apply	
P Nsync Target	1	2000 - 20	

Nsync Target

From the **System Network** menu, choose the **Nsync Target** item, and the **Nsync Setting** screen appears. Enable or Disable your Nsync Target Server. Press **Apply** to confirm your settings.

If the ALLNET Nsync feature has chose to use Rsync to replicate data between two systems. For the target side to allow source cross data, the Rsync target server needs to assign a username and password for authentication.

Once **Nsync Target** has been enabled, the other ALLNET NAS product is able to operate remote replication to this NAS system.

Menu	<u>«</u>	🧶 My favorite
📜 System Information		- Nsync Setting
🗙 System Management	(*)	Nsync Target Server: 🔘 Enable 🔘 Disable
System Network	-	
Media Server Media Server HTTP / Web Disk UPnP Nsync Target	<	Rsync Setting Rsync Target Server : C Enable Username: Password:
Storage	(*)	Apply

Bonjour Setting

Bonjour, is Apple Inc.'s trade name for its implementation of Zeroconf, a service discovery protocol. Bonjour locates devices such as printers, as well as other computers, and the services that those devices offer on a local network using multicast Domain Name System service records. This definitive guide walks you through Bonjour zero-configuration networking with a complete description of the protocols and technologies used to create Bonjour enabled applications and devices.

<u></u>	🔎 My favorite
Ŧ	Bonjour Setting
(*)	Bonjour service: 🔘 Enable 💿 Disable
3	
	Apply
	•

TFTP

ALLNET ALL60700 can act as a TFTP server, enabling users to download and upload files with their favorite TFTP programs. From the **System Network** menu, choose the **TFTP** item, and the **TFTP** screen appears. You can change any of these items and press **Apply** to confirm your settings.

Menu	22	🥐 My favorite
📕 System Information	.+1	TFTP
💥 System Management	.*.)	TFTP: O Enable O Disable
System Network	-	IP: WAN (192.168.0.50)
Wedia Server HTTP / Web Disk UPnP Nsync Target Bonjour	< 2	Port: Share Folder: The folder [] is not found among the list. Folder Permission: Read
🔜 Storage	(±)	
🐴 User and Group Authentication		Apply
C Automation Courses	10	1

A description of each item follows:

FTP	
Item	Description
TFTP	Enable TFTP Service on the ALLNET ALL60700.
IP	Checked WAN/LAN1 or LAN2 to enable port use
Port	Specifies the port number of an incoming connection on a
	non-standard port.
Share Folder	Select the file stored folder, it can not be empty.
Folder Permission	Select the folder permission

Storage Management

The **Storage** menu displays the status of storage devices installed in the ALLNET ALL60700, and includes storage configuration options such as RAID and disk settings, folder configuration, space allocation and ISO Mount.

Disks Information

From the **Storage** menu, choose the **Disks** item and the **Disks Information** screen appears. From here, you can see various items about installed SATA hard disks. Blank lines indicate that a SATA hard disk is not currently installed in that particular disk slot.

Menu	96°					
System Information	Disks In	formation				
Jysten Management	Disk No.	Capacity (MB)	Model	Finnware	Status	Bad Block Scan
Wie System Network	1	955,870	Hirachi HDE72101	\$T60	GP OK	Yet to start
H Stongs	2	953,870	Hitachi HDE72101	STEO	SP OK	Vet to start
Diska	3	953,870	Hitachi HDE72101	ST60	🔅 ok	Yet to start
SAID	4	953,870	Mitachi MDE72101	5T6O	() OK	Yet to start
Space Allocation	Total Cap	eity: 3815480 (343))			
Share Polder						
Stackable 130 Mount						
A THE PARAM	Disk Po	eer Management				
U-User and Group Authentication		estante Textore				
Application Server	Disk Power	Management	OFF 🚩 Minuta	Apply		
RModule management						

Disks Informa	ation
Item	Description
Disk No.	Indicates disk location.
Capacity	Shows the SATA hard disk capacity.
Model	Displays the SATA hard disk model name.
Firmware	Shows the SATA hard disk firmware version.
Status	Indicates the status of the disk. Can read OK , Warning , or
	Failed.
Bad Block scan	Yes to start scan Bad Block.
Total Capacity	Shows the total SATA hard disk capacity.
Disk Power	The administrator can set the disk to power down after a period of
Management	inactivity.

NOTE

When the Status shows Warning, it usually means there are bad sectors on the hard disk. It is shown only as a precaution and you should consider changing the drives.

S.M.A.R.T. Information

On the **Disks Information** screen, the status of each disk will be displayed in the **Status** column. Clicking on an **OK** or **Warning** link will display the **S.M.A.R.T Information** window for that particular disk.

You may also perform disk SMART test, simply to click "Test" to start with. The result is only for reference and system will not take any action from its result.

ART INFO				
Info				
Tray Number:	1			
Model:	Hitachi HDE72101			
Power On Hours:	61 Hours			
Temperature Celsius:	33			
Reallocated Sector Count:	0			
Current Pending Sector:	0			
@ .tv	ut in laat			
Test Type.	rt 🔘 long			
Test Result: Yet to s	tart			
Test Time:				
Test				

S.M.A.R.T. Inf	formation
Item	Description
Tray Number	Tray the hard disk is installed in.
Model	Model name of the installed hard disk.
Power ON Hours	Count of hours in power-on state. The raw value of this attribute
	shows total count of hours (or minutes, or seconds, depending on
	manufacturer) in power-on state.
Temperature Celsius	The current temperature of the hard disk in degrees Celsius
Reallocated Sector	Count of reallocated sectors. When the hard drive finds a
Count	read/write/verification error, it marks this sector as "reallocated"
	and transfers data to a special reserved area (spare area).
	This process is also known as remapping and "reallocated" sectors
	are called remaps. This is why, on a modern hard disks, you can
	not see "bad blocks" while testing the surface - all bad blocks are
	hidden in reallocated sectors. However, the more sectors that are
	reallocated, the more a decrease (up to 10% or more) can be
	noticed in disk read/write speeds.
Current Pending Sector	Current count of unstable sectors (waiting for remapping). The
	raw value of this attribute indicates the total number of sectors
	waiting for remapping. Later, when some of these sectors are read
	successfully, the value is decreased. If errors still occur when
	reading sectors, the hard drive will try to restore the data, transfer
	it to the reserved disk area (spare area), and mark this sector as
	remapped. If this attribute value remains at zero, it indicates that
Tost Typo	the quality of the corresponding surface area is low. Set short or long time to test.
Test Type	
Test Result	Result of the test.
Test Time	Total time of the test.

NOTE

If the Reallocated Sector Count > 32 or Current Pending Sector of a hard disk drive > 0, the status of the disk will show "Warning". This warning is only used to alert the system administrator that there are bad sectors on the disk, and they should replace those disks as soon as possible.

Bad Block Scan

On the **Disks Information** screen, you may also perform disk bad block scan, simply to click "Click to start" to start with. The result is only for reference and system will not take any action from its result.

Hik No.	Capacity (MB)	Model	Firmware	Status	Bad Block Sean
	953,870	Hitachi HDE72101	\$T60	🕼 OK	Yet to start
β	953,870	Hitachi HDE72101	ST6O	🕼 OK	Seanning (6%)
	953,870	Hitachi HDE72101	\$T60	OK OK	Yet to start
ł.	953,870	Hitachi HDE72101	ST6O	S SK	Yet to start

The testing result will be stay till system reboot with "Yet to start" displayed as default.

RAID Information

From the **Storage** menu, choose the *RAID* item and the *RAID Information* screen appears.

This screen lists the RAID volumes currently residing on the ALLNET ALL60700. From this screen, you can get information about the status of your RAID volumes, as well as the capacities allocated for data, and iSCSI. There is also a graph which represents how the RAID volume is currently allocated.

Menu	(N)								
System Information	æ	RAID Informatio	n						
🛹 System Management	.±I	Create DEd							
WW System Network	<u>+</u>	Master RAID	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	USB	iSCSI Capacity
B Storage	-					Capacity	- capacity	Jupacity	Capacity
Click RAID Space Allocation Share Folder Stackable ISO Mount									

RAID Informa	ation
Item	Description
Master RAID	The RAID volume currently designated as the Master RAID
	volume.
ID	ID of the current RAID volume.
	NOTE: All RAID IDs must be unique.
RAID Level	Shows the current RAID configuration.
Status	Indicates status of the RAID. Can read either <i>Healthy</i> ,
	Degraded, or Damaged.
Disks Used	Hard disks used to form the current RAID volume.
Total Capacity	Total capacity of the current RAID.
Data Capacity	Indicates the used capacity and total capacity used by user data.
iSCSI Capacity	Indicates the capacity allocated to iSCSI.

Create a RAID

On the **RAID Information** screen, press the *create* button to go to the **CREAT RAID** screen. In addition to RAID disk information and status, this screen lets you make RAID configuration settings.

Using **Create RAID**, you can select stripe size, choose which disks are RAID disks or the Spare Disk. .

RAID Configu	rations
Item	Description
Disk No.	Number assigned to the installed hard disks.
Capacity (MB)	Capacity of the installed hard disks.
Model	Model number of the installed hard disks.
Status	Status of the installed hard disks.
Used	If this is checked, current hard disk is a part of a RAID volume.
Spare	If this is checked, current hard disk is designated as a spare for a
	RAID volume.
Master RAID	Check a box to designate this as the Master RAID volume. See the
	NOTE below for more information.
Stripe Size	This sets the stripe size to maximize performance of sequential

	files in a storage volume. Keep the 64K setting unless you require a special file storage layout in the storage volume. A larger stripe size is better for large files.
Data Percentage	The percentage of the RAID volume that will be used to store data.
Create	Press this button to configure a file system and create the RAID storage volume.

To create a RAID volume, follow the steps below:

- 1. On the **RAID Information** screen, click *create*.
- On the RAID Configuration screen, set the RAID storage space as JBOD, RAID 0, RAID 1, RAID 5, RAID 6, or RAID 10 — see Appendix A: RAID Basics for a detailed description of each.
- 3. Specify a RAID ID.
- 4. If this RAID volume is meant to be the Master RAID volume, tick the **Master RAID** checkbox.

NOTE	In a multiple RAID configuration, one RAID volume must be designated as the Master RAID volume. The Master RAID volume will store all installed modules. If
	the Master RAID is changed to another location (i.e. assigning volume 2 to be the Master RAID volume after volume 1 had been previously assigned), then all modules must be reinstalled. In addition, all system folders that were contained
	on the Master RAID volume will be invisible. Reassigning this volume to be the Master RAID will make these folders visible again.

5. Selected whether the RAID volume will be encrypted or not. The RAID volume can protect data by using RAID Volume Encryption function to prevent the risk of data exposure. To activate this function, the **Encryption** option needs to be enabled while the RAID is created and followed by password input for identification. Also, an external writable USB disk plugged into any USB port on the system is required to save the password you have entered while the RAID volume is being created. See the screenshot below for details.

D Information						
Create RAID						
Disk No.	Capacity (MB)	Model	Status	Used	Spare	
1	953,870	Hitachi HDE72101	OK			
2	953,870	Hitachi HDE72101	OK			
3	953,870	Hitachi HDE72101	ок			
4	953,870	Hitachi HDE72101	ок			
AID Level:	O IBOD	🖲 RAID 0	🖱 RAID 1	🕐 RAID 5	🕐 RAID 6	💮 RAID 10
AID Level:) JBOD	(Allow 0~9, a~z, A)			🕐 RAID 6	
LD ID:	RAID				Take effect after c	
AID ID:	RAID	(Allow 0~9, a~z, A sword:		Master RAID - Confirm Passw	Take effect after c	

Once the **Create** button has been pressed with the **Encryption** checkbox enabled, the following message pop-up will appear for confirmation.



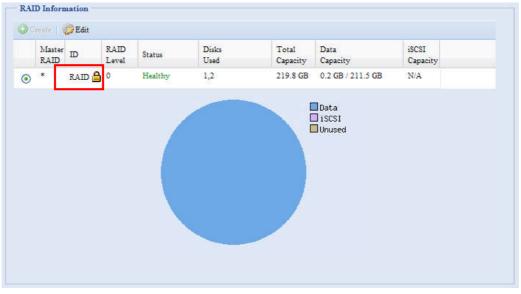
After the RAID volume has been created, you may remove this USB disk until the next time the system boots. The RAID volume can not be mounted if the USB disk with key can not be found in any system USB port when the volume is accessed. To activate the encrypted volume, plug the USB disk containing the encryption key and into any system USB port.

We are strongly recommended copying the RAID volume encryption key to a safe place. You can find the encryption key file from the USB disk in the following format:

```
(RAID volume created date)_xxxxx.key
```

WARNING	Please keep USB disk in a safe place and also backup the encrypted key. There is no way to rescue data back if the key is lost.
NOTE	 With RAID volume encryption enabled, the system performance will goes down. With RAID volume encryption enabled, RAID volume expansion will
	operated in off line mode.

RAID volumes with encryption enabled will be displayed with a key lock symbol next to volume ID name.



- 6. Specify a stripe size 64K is the default setting.
- 7. Specify the percentage allocated for user data by drag the horizontal bar. The remaining space will be made available for iSCSI.

8. Selected the file system you like to have for this RAID volume. The selection is available from ext3, XFS and ZFS.

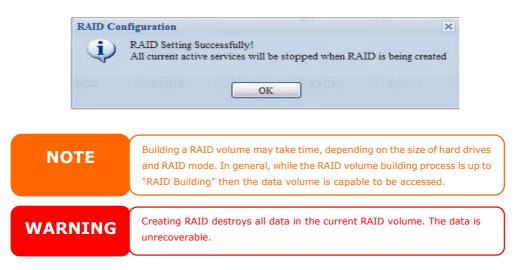
NOTE	 Select ZFS file system while snapshot is needed. It is only one ZFS file system allowed to be created per system.
	allowed to be created per system.
	· ZFS file system is only accessible by CIFS/SMB, not for AFP and NFS users.
	· XFS file system is not support folder quota feature

Create RAID							
Disk No.	Capacity (MB)	Model	Status	Used	Spare		
1	953,870	Hitachi HDE72101	OK				
2	953,870	Hitachi HDE72101	OK				
3	953,870	Hitachi HDE72101	OK				
4	953,870	Hitachi HDE72101	OK				
RAID ID:	RAID	(Allow 0~9, a~z, A	-Z) 🗄	Master RAID + Tai	ke effect after cl	hecked box	
RAID ID:	RAID	(Allow 0~9, a~z, A	-Z) 🔚	Master RAID + Tai	ke effect after cl	hecked box	
Encryption.:	2 Par	word:		Confirm Password			
Stripe Size:	64 KB 💌						
Data Percentage:		j	38 %				
File System:	EXT3 💌						

9. Press *Create* to build the RAID storage volume.

-

Menu	cc I	🔶 My i	avorite							(
L System Information		RA	ID Info	rmatio	1					
💥 System Management		0	reste	Edit						
🚰 System Network	.+1		Mas RAID	ID	RAID	Status	Disks Used	Total Capacity	Data Capacity	ISCS1 Capa
Storage	-		10120	RAID	0	Formatting		3722.2		N/A
tin Space Alocation i Share Folder i Stackable i Stackable i Sto Mount		RAID	Status	: Format	ting RAID			Unu		



With a RAID 1, RAID 5, RAID 6, or RAID 10 volume, you can also add a spare disk after the RAID is created.

See **Chapter 6: Tips and Tricks > Adding a Spare Disk** for details. For more information on RAID, see **Appendix** A: **RAID Basics**.

RAID Level

You can set the storage volume as **JBOD**, **RAID 0**, **RAID 1**, **RAID 5**, **RAID 6** or **RAID 10**. RAID configuration is usually required only when you first set up the device. A brief description of each RAID setting follows:

RAID Levels	
Level	Description
JBOD	The storage volume is a single HDD with no RAID support. JBOD requires a minimum of 1 disk.
RAID 0	Provides data striping but no redundancy. Improves performance but not data safety. RAID 0 requires a minimum of 2 disks.
RAID 1	Offers disk mirroring. Provides twice the read rate of single disks, but same write rate. RAID 1 requires a minimum of 2 disks.
RAID 5	Data striping and stripe error correction information provided. RAID 5 requires a minimum of 3 disks. RAID 5 can sustain one failed disk.
RAID 6	Two independent parity computations must be used in order to provide protection against double disk failure. Two different algorithms are employed to achieve this purpose. RAID 6 requires a minimum of 4 disks. RAID 6 can sustain two failed disks.
RAID 10	RAID 10 has high reliability and high performance. RAID 10 is implemented as a striped array whose segments are RAID 1 arrays. It has the fault tolerance of RAID 1 and the performance of RAID 0. RAID 10 requires 4 disks. RAID 10 can sustain two failed disks.
WARNING	If the administrator improperly removes a hard disk that should not be

removed when RAID status is degraded, all data will be lost.

Edit RAID

On the **RAID Information** screen, press the *Edit* button to go to the **RAID Information** screen.

📧 🔴 My favorite 6 Menu E System Information **RAID Information** 💥 System Management O Creste 🛷 Edit System Network Mas. RAID Disks Used Total Data Capacity Capacity ISCSI Status ID RAID Level Capa.. Storage • * RAID 0 Healthy 1,2 3722.2... 0.2 GB / 3424.4 GB N/A Oisks ■Data ■iSCSI ■Unused Space Allocation Share Folder Subser and Group Authentication Application Server 📌 Module management

Using Edit RAID, you can select RAID ID and the Spare Disk. .

AID Information	Expand Migrat	a RAID				
Edit						
Disk No.	Capacity (MB)	Model	Status	Used	Spare	
1	953,870	Hitschi HDE72101	OK.	2		
2	953,870	Hitachi HDE72101	OK	9		
3	953,870	Hitachi HDE72101	OK	U.		
4	953,870	Hitachi HDE72101	ок			
RAID ID:	RAID	(Allow 0~9, a~2, A	-Z)	🖉 Master RAID - 1	Fake effect after che	cked box
Encryption.:	Pa	eword:		Confirm Passwo	aud:	
Stripe Size:	64 KB 💌					
Data Percentage:			= 31%			
	EXT3 💌					
File System						
	move RAID		П			

ent acuve services	will be stopped when operation i	is in progress	. Are you sure to t	apuace secting now
	Yes No)		
RAID Co	nfiguration		×	
į	RAID Infomation update S	Successfully	1	
्रम् म्यल्यूव २	OK		and the second	

Remove RAID

Click to remove the RAID volume. All user data and iSCSI has been created in selected RAID volume will be removed.

To remove a RAID volume, follow the steps below:

- On the RAID List screen, select the RAID volume by clicking on its radio button, and click *RAID Information* to open the RAID Configuration screen.
- 2. On the **RAID Configuration** screen, click *Remove RAID*.
- 3. The confirmation screen appear, you will have to input "Yes" with exactly wording case to complete "**Remove RAID**" operation

AID Information	Expand Migral	e RAID				
Edit						
Disk No.	Capacity (MB)	Model	Status	Used	Spare	
1	953,870	Hitschi HDE72101	ок	w.		
2	953,870	Hitachi HDE72101	OK	9		
3	953,870	Hitachi HDE72101	OK.			
4	953,870	Hitachi HDE72101	ок			
RAID Level:	0 mon	BAID 0	🖯 RAID I	🕒 RAID S	() IAID 6	C RAID 10
RAID ID:	RAID	(Allow 0-9, a-2, A	~Z) [🖉 Master RAID - '	Take effect after ch	ecked box
Encryption.:	Pa	isword:		Confirm Passw	ord:	
Stripe Size:	64 KB 💌					
Data Percentage:			- 35			
File System:	EXT3 💌					
Apply	nove RAID					
AND MARK						
						volume. The data is

Expanding a RAID

To expand a RAID 1, RAID 5, RAID 6, or RAID 10 volume, follow the steps below:

- 1. Replace one of the hard drives in the RAID volume and allow it to automatically rebuild.
- 2. Once rebuilt, you can continue to replace any remaining disks in the RAID array.
- 3. When you are done replacing hard drives, log on to Web Management. Navigate to **Storage**> *RAID* to open the **RAID Configuration** screen.

- 4. On the **RAID Information** screen, and click *Edit* to open the **RAID Configuration** screen.
- 5. On the **RAID Configuration** screen, click *Expand*.

NOTE	RAID expansion did not support file system created by ZFS.	
RAID Configuration		×
RAID Information Expand	1 Migrate RAID	
Unused: Expand Capacity: Apply	86.59 GB (60 %)	

Migrating a RAID

Once a RAID volume has been created, you may want to move it to other physical drives or change the RAID array all together. To migrate a RAID 0, RAID 1, RAID 5 or RAID 6 volume, follow the steps below:

- 1. From the RAID Configuration screen, click Migrate RAID.
- 2. A list of possible RAID migration configurations will be listed. Select the desired migration scheme and click **Apply**.
- 3. The system will begin migrating the RAID volume.

Disk No.	Capacity (MB)	Model	Status	Used	Available Disk	
1	953,870	Hitachi HDE72101		12		
2	953,870	Hitachi HDE72101		9		
3.4.	953,870 953,870	Hitachi HDE72101 Hitachi HDE72101		2		
20	200010	Interenting and a store	VA	100		
	🛞 RAID 0 ->	RAID 5 (Offline)	(5) RAID 5 ~ RAID 5 (Online)			
	🔿 RAID I ->	(millio) 0 (DIAB	.0	RAID 6 - RAU	3.6 (Online)	
	🗇 RAID 1 -	EAID 2 (Online)				
Apply						

Are you	sure?	
RAID Configuration	ita lost caused by power failure, a full data backup is strongly recommanded. Please type in []	X ar 1
below to proceed. Yes	OK Cancel	
	RAID Configuration	
	RAID Setting Successfully! You are in on_line Migration NOW!!	
	<u>lok</u>	

With RAID level migration function, it has two different type "On line" and "Off line" alone with limitation as listed below.

- 1. During RAID level migration, it is not allowed reboot or shutdown system.
- 2. Off line RAID level migration, all services will stop and data is inaccessible.
- To have ZFS file system created doing on line RAID level migration from R1 to R5 or R1 to R6, the all services will restart and volumes "user data" and "iSCSI" are read only during operation.
- 4. To have ext3 and XFS file system created doing on line RAID level migration from **R1 to R5 or R1 to R6**, the all services will restart and

volumes "iSCSI" is read only but "user data" is capable read / write during operation.

5. The other combination to make as "On line" can have read / write work as normal.

NOTE The migration scheme below is based on ALLNET IP Storage series products in maximum possible combination. The other model which has less HDD supported can refer web UI while RAID migration operated.	
--	--

Below is a table listing of possible RAID migration schemes:

То			
From	RAID 0	RAID 5	RAID 6
RAID	[OFFLINE]	[OFFLINE]	х
0	[RAID 0] HDDx2 to [RAID 0] HDDx3	[RAID 0] HDDx2 to [RAID 5] HDDx3	
	[RAID 0] HDDx2 to [RAID 0] HDDx4	[RAID 0] HDDx2 to [RAID 5] HDDx4	
	[RAID 0] HDDx2 to [RAID 0] HDDx5	[RAID 0] HDDx2 to [RAID 5] HDDx5	
	[RAID 0] HDDx2 to [RAID 0] HDDx6	[RAID 0] HDDx2 to [RAID 5] HDDx6	
	[RAID 0] HDDx2 to [RAID 0] HDDx7	[RAID 0] HDDx2 to [RAID 5] HDDx7	
	[RAID 0] HDDx3 to [RAID 0] HDDx4	[RAID 0] HDDx3 to [RAID 5] HDDx4	
	[RAID 0] HDDx3 to [RAID 0] HDDx5	[RAID 0] HDDx3 to [RAID 5] HDDx5	
	[RAID 0] HDDx3 to [RAID 0] HDDx6	[RAID 0] HDDx3 to [RAID 5] HDDx6	
	[RAID 0] HDDx3 to [RAID 0] HDDx7	[RAID 0] HDDx3 to [RAID 5] HDDx7	
	[RAID 0] HDDx3 to [RAID 0] HDDx8	[RAID 0] HDDx3 to [RAID 5] HDDx8	
	[RAID 0] HDDx4 to [RAID 0] HDDx5	[RAID 0] HDDx4 to [RAID 5] HDDx5	
	[RAID 0] HDDx4 to [RAID 0] HDDx6	[RAID 0] HDDx4 to [RAID 5] HDDx6	
	[RAID 0] HDDx4 to [RAID 0] HDDx7	[RAID 0] HDDx4 to [RAID 5] HDDx7	
	[RAID 0] HDDx4 to [RAID 0] HDDx8	[RAID 0] HDDx4 to [RAID 5] HDDx8	
	[RAID 0] HDDx5 to [RAID 0] HDDx6	[RAID 0] HDDx5 to [RAID 5] HDDx6	
	[RAID 0] HDDx5 to [RAID 0] HDDx7	[RAID 0] HDDx5 to [RAID 5] HDDx7	
	[RAID 0] HDDx5 to [RAID 0] HDDx8	[RAID 0] HDDx5 to [RAID 5] HDDx8	
	[RAID 0] HDDx6 to [RAID 0] HDDx7	[RAID 0] HDDx6 to [RAID 5] HDDx7	
	[RAID 0] HDDx6 to [RAID 0] HDDx8	[RAID 0] HDDx6 to [RAID 5] HDDx8	
	[RAID 0] HDDx7 to [RAID 0] HDDx8	[RAID 0] HDDx7 to [RAID 5] HDDx8	
RAID	[OFFLINE]	[ONLINE]	[ONLINE]
1	[RAID 1] HDDx2 to [RAID 0] HDDx2	[RAID 1] HDDx2 to [RAID 5] HDDx3	[RAID 1] HDDx2 to [RAID 6] HDDx4
	[RAID 1] HDDx2 to [RAID 0] HDDx3	[RAID 1] HDDx2 to [RAID 5] HDDx4	[RAID 1] HDDx2 to [RAID 6] HDDx5
	[RAID 1] HDDx2 to [RAID 0] HDDx4	[RAID 1] HDDx2 to [RAID 5] HDDx5	[RAID 1] HDDx2 to [RAID 6] HDDx6
	[RAID 1] HDDx2 to [RAID 0] HDDx5	[RAID 1] HDDx2 to [RAID 5] HDDx6	[RAID 1] HDDx2 to [RAID 6] HDDx7
	[RAID 1] HDDx2 to [RAID 0] HDDx6	[RAID 1] HDDx2 to [RAID 5] HDDx7	[RAID 1] HDDx2 to [RAID 6] HDDx8
	[RAID 1] HDDx2 to [RAID 0] HDDx7	[RAID 1] HDDx2 to [RAID 5] HDDx8	[RAID 1] HDDx3 to [RAID 6] HDDx4
	[RAID 1] HDDx2 to [RAID 0] HDDx8	[RAID 1] HDDx3 to [RAID 5] HDDx4	[RAID 1] HDDx3 to [RAID 6] HDDx5
	[RAID 1] HDDx3 to [RAID 0] HDDx4	[RAID 1] HDDx3 to [RAID 5] HDDx5	[RAID 1] HDDx3 to [RAID 6] HDDx6
	[RAID 1] HDDx3 to [RAID 0] HDDx5	[RAID 1] HDDx3 to [RAID 5] HDDx6	[RAID 1] HDDx3 to [RAID 6] HDDx7
	[RAID 1] HDDx3 to [RAID 0] HDDx6	[RAID 1] HDDx3 to [RAID 5] HDDx7	[RAID 1] HDDx3 to [RAID 6] HDDx8
	[RAID 1] HDDx3 to [RAID 0] HDDx7	[RAID 1] HDDx3 to [RAID 5] HDDx8	[RAID 1] HDDx4 to [RAID 6] HDDx5
	[RAID 1] HDDx3 to [RAID 0] HDDx8	[RAID 1] HDDx4 to [RAID 5] HDDx5	[RAID 1] HDDx4 to [RAID 6] HDDx6
	[RAID 1] HDDx4 to [RAID 0] HDDx5	[RAID 1] HDDx4 to [RAID 5] HDDx6	[RAID 1] HDDx4 to [RAID 6] HDDx7
	[RAID 1] HDDx4 to [RAID 0] HDDx6	[RAID 1] HDDx4 to [RAID 5] HDDx7	[RAID 1] HDDx4 to [RAID 6] HDDx8
	[RAID 1] HDDx4 to [RAID 0] HDDx7	[RAID 1] HDDx4 to [RAID 5] HDDx8	[RAID 1] HDDx5 to [RAID 6] HDDx6
	[RAID 1] HDDx4 to [RAID 0] HDDx8	[RAID 1] HDDx5 to [RAID 5] HDDx6	[RAID 1] HDDx5 to [RAID 6] HDDx7
	[RAID 1] HDDx5 to [RAID 0] HDDx6	[RAID 1] HDDx5 to [RAID 5] HDDx7	[RAID 1] HDDx5 to [RAID 6] HDDx8
	[RAID 1] HDDx5 to [RAID 0] HDDx7	[RAID 1] HDDx5 to [RAID 5] HDDx8	[RAID 1] HDDx6 to [RAID 6] HDDx7

	[RAID 1] HDDx5 to [RAID 0] HDDx8 [RAID 1] HDDx6 to [RAID 0] HDDx7 [RAID 1] HDDx6 to [RAID 0] HDDx8 [RAID 1] HDDx7 to [RAID 0] HDDx8	[RAID 1] HDDx6 to [RAID 5] HDDx7 [RAID 1] HDDx6 to [RAID 5] HDDx8 [RAID 1] HDDx7 to [RAID 5] HDDx8	[RAID 1] HDDx6 to [RAID 6] HDDx8 [RAID 1] HDDx7 to [RAID 6] HDDx8
RAID	X	[ONLINE]	X
5		[RAID 5] HDDx3 to [RAID 5] HDDx4 [RAID 5] HDDx3 to [RAID 5] HDDx5	
		[RAID 5] HDDX3 to [RAID 5] HDDX6	
		[RAID 5] HDDx3 to [RAID 5] HDDx7	
		[RAID 5] HDDx3 to [RAID 5] HDDx8	
		[RAID 5] HDDx4 to [RAID 5] HDDx5	
		[RAID 5] HDDx4 to [RAID 5] HDDx6	
		[RAID 5] HDDx4 to [RAID 5] HDDx7	
		[RAID 5] HDDx4 to [RAID 5] HDDx8	
		[RAID 5] HDDx5 to [RAID 5] HDDx6	
		[RAID 5] HDDx5 to [RAID 5] HDDx7 [RAID 5] HDDx5 to [RAID 5] HDDx8	
		[RAID 5] HDDx6 to [RAID 5] HDDx7	
		[RAID 5] HDDx6 to [RAID 5] HDDx8	
		[RAID 6] HDDx7 to [RAID 6] HDDx8	
RAID	х	х	[ONLINE]
6			[RAID 6] HDDx4 to [RAID 6] HDDx5
			[RAID 6] HDDx4 to [RAID 6] HDDx6 [RAID 6] HDDx4 to [RAID 6] HDDx7
			[RAID 6] HDDx4 to [RAID 6] HDDx7 [RAID 6] HDDx4 to [RAID 6] HDDx8
			[RAID 6] HDDx5 to [RAID 6] HDDx6
			[RAID 6] HDDx5 to [RAID 6] HDDx7
			[RAID 6] HDDx5 to [RAID 6] HDDx8
			[RAID 6] HDDx6 to [RAID 6] HDDx7
			[RAID 6] HDDx6 to [RAID 6] HDDx8
			[RAID 6] HDDx7 to [RAID 6] HDDx8

Space Allocation

iSCSI Target

You may specify the space allocated for iSCSI. The iSCSI volume can be created 25 volumes per system depend on ALLNET ALL60700's model.

Model	ALL60700
Allow iSCSI volume	25

To do this, under the **Storage** menu, click **RAID** and the **RAID List** window appears. Select the RAID volume you wish to reallocate by clicking on its radio button, and click **Space Allocation**. The **RAID Information** and **Volume Allocation List** windows will appear.

The Volume Allocation List displays the space allocated for **iSCSI** volumes on the current RAID volume.

Menu	8	🧶 My favorite							1
System Information		Space Al							
💥 System Management	.*)	- KAID I	nformatio	in .					
System Network	10	Master RAID	ID	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	iSCSI Capacity
Storage	1	•	RAID	0	Healthy	1,2	3722.2	0.2 GB / 3424.4 GB	37.2 G8
Space Allocation Share Folder Stackable ISO Mount		ISCSI T		SCSI Thin-Provi		Advance Option]		
L		Type				Name		Capac	stγ
Ser and Group Authentication	1.00	ISCSI				8800pro01		37.2	GB
Application Server	<u>.</u>								
& Module management	- 15								
	and the second se								

Volume Allocation List						
Item	Description					
Modify	Click this to modify the allocated space.					
Delete	Click this to delete the allocated space.					
iSCSI Target	Click to allocate space to iSCSI volume.					
Туре	Type of volume. Can be either USB or iSCSI.					
Name	Name assigned to the volume.					
Capacity	Capacity of the allocated space.					

Allocating Space for iSCSI Volume

Menu	💗 My favorite	<u></u>						N.
📜 System Information 👘	Space Al	location						
💥 System Management 👘	RAID I	nformatio	n					
System Network	Master RAID	ID	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	ISCSI Capacity
Storage 🖆		RAID	0	Healthy	1,2	3722.2	0.2 GB / 3424.4 GB	37.2 G8
Space Allocation Share Folder Stackable Stackable	ISCSI T		CSI Thin-Prov		Advance Option			
	Type				Name		Capac	sitγ
Subser and Group Authentication	ISCSI				8800pro01		37.2	GB
Application Server 👘								
🗬 Module management 👘								

To allocate space for an iSCSI volume on the current RAID volume, follow the steps below:

1. Under the **Volume Allocation List**, select *iSCSI Target then click Add*. The **Create iSCSI Volume** screen appears.

Country incont Malana		
Create iSCSI Volume — RAID ID: Unused: Allocation: ISCSI Target Volume: Target Name: Ign_Year: Ign_Month: LUN ID: Authentication: Username: Password:	RAID 4 % (148.88 GB) Enable © Disable Limit:(0~9, a~z) 2010 08 2 © CHAP Limit:(0~9, a~z, A~Z)	
Password Confirm:	Umt:(0~9, a~z, A~Z,length between 12~16)	

Create iSCSI Volume						
Item	Description					
RAID ID	ID of current RAID volume.					
Allocation	Percentage and amount of space allocated to iSCSI volume.					
Unused	Percentage and amount of unused space on current RAID					
	volume.					
iSCSI Target Volume	Enable or Disable the iSCSI Target Volume.					
Target Name	Name of the iSCSI Target. This name will be used by the					
	Stackable NAS function to identify this export share.					
Year	Select the current year from the dropdown.					
Authentication	You may choose CHAP authentication or choose None.					
Month	Select the current month from the dropdown.					

LUN ID	Specific Logic unit ID number.
Username	Enter a username.
Password	Enter a password.
Password Confirm	Reenter the chosen password

- 2. Designate the percentage to be allocated from the **Allocation** drag bar.
- 3. Enable the **iSCSI Target Service** by selecting *Enable*.
- 4. Choose to enable *CHAP* authentication or choose *None*.
- 5. Enter a **Target Name**. This will be used by the **Stackable NAS** function to identify this export share.
- 6. Choose the current year from the **Year** dropdown.
- 7. Choose the current month from the **Month** dropdown.
- When iSCSI target volume has been created, the LUN ID is configurable from 1 to 254 with a default of the next available number in ascending numerical order. The LUN ID is unique and can not be duplicated except for LUN ID 0.
- 9. If you've enabled CHAP authentication, enter a **username** and a **password**. Confirm your chosen password be reentering it in the **Password Confirm** box.
- 10. Click **OK** to create the iSCSI volume.

Modify iSCSI Volume

To Modify iSCSI volume on the current RAID volume, follow the steps below:

1. Under the **Volume Allocation List**, click **Modify**. The **Modify iSCSI Volume** screen appears.

Menu	66	My favorite							
🟓 System Information		Space All	ocation						
💥 System Management		RAID In	nformatio	n					
System Network	(e)	Master RAID	ID	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	ISCSI Capacity
Storage	-	•	RAID	0	Healthy	1,2	3722.2	0.2 GB / 3424.4 GB	37.2 GB
C RAID Space Allocation Share Folder Stackable		Volume ISCSI Ta Q Add Type		CSI Thin-Provi	sion Target	Advance Optio	n	Capac	Ťv
Subser and Group Authentication		SCSI				8800pro01		37.2	
Application Server									
💣 Module management	4								

Create iSCSI Volume		
RAID ID: Unused: Allocation:	RAID 4 % (148.88 GB)	
ISCSI Target Volume:	🕑 Enable 💿 Disable	
Target Name: Ign_Year: Ign_Month: LUN ID: Authentication: Username: Password:	Limit:(0~9, a~z) 2010 08 2 • None CHAP Limit:(0~9, a~z, A~Z) Limit:(0~9, a~z, A~Z) Limit:(0~9, a~z, A~Z)	
Password Confirm:		
Description	et under system advance option, default is 512 Bytes.	
Please use [4K] block size w	hie more than 2TB capacity will be configured in Windows XP. k size for application like VMware etc.	

2. Modify your setting. Press **ok** to change.

Expand Volume

The iSCSI volume is now able to expand its capacity from unused space. From the volume list, simply select the iSCSI volume you like to expand and click the **Expand** button:

CIAD	D	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	iSCSI Capacity
•	RAID	0	Healthy	1,2	219.8	0.2 GB / 84.8 GE	56.9 GB
Volume	Allocation L	ist					
					1		
iSCSI	farget 180	SI Thin-Privi	sion Target	Advance Option			
O Add	💮 Modify	🎲 Expand	i 🥥 Delete				
Type				Name			Capacity
iSCSI				iscsi			56.9 GB

You will then see the dialog box displayed below. Drag the **Expand Capacity** bar to the size you want. Then press **Expand** to confirm the operation.

Expand iSCSI Thin-P	rivision Volume	
Name:	iscsi	
Unused:	34 % (74.38 GB)	
Expand Capacity:	74.38 GB	
Expand		
Description		
The ISCSI services will be	stoped during ISCSI expand execution, please be noticed.	

Delete Volume

To delete volume on the current RAID volume, follow the steps below:

1. Under the **Volume Allocation List**, click **Delete**. The **Space Allocation** screen appears.

Menu	255	💗 My favorite						
System Information		- Space Allocat						
💥 System Management		KAID Inform	nation					
System Network		Master ID RAID	RAID	Status	Disks Used	Total Capacity	Data Capacity	ISCSI Capacity
Storage	-	* RAI	0 0	Healthy	1,2	3722.2	0.2 GB / 3424.4 GB	
Disks RAID Space Allocation Share Folder Stackable		Volume Allo			Advance Option			
150 Mount		Type			Name		Capa	sity
🕌 User and Group Authentication		SCSI			8800pro01		37.2	the second s
Application Server								
💣 Module management	-							
	- Witten F	ce Allocation ?? All data in	the volume wil	l be remove	ed as well. Ar	e you sure	2	

2. Press **YES**. All data in the volume will be removed.

iSCSI Thin-Provisioning

With this function, the iSCSI capacity can be more flexible and more efficiently serve more users.

The idea for iSCSI thin-provisioning is sharing the available physical capacity to a number of iSCSI target volumes and also setup virtual capacity to expand the physical size while it needed.

To setup iSCSI thin-provisioning, go to **Space Allocation** under the **Storage** category. The iSCSI thin-provisioning volume needs to be created first. Simply click **iSCSI Thin-Provision Target.** You can refer the screen shot below.

daster AID	ID	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	iSCSI Capacity
	RAID	0	Healthy	1,2	219.8	0.2 GB / 84.8 GB	70 GB
Volume	Allocation L	ist					
iSCSI Ta	areat iscs	I Thin-Privi	sion Target	Advance Optio			
10001 11			ston target	Advance Optio	**		
iSCSI 1	Thin-Privision	1 Volume					
O Add	Expand	\ominus Delete					
				Name			
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity
Type				Name			Capacity

Next, setup the physical capacity for iSCSI thin-provision volume by dragging the **Allocation** bar to the desired size.

Create iSCSI This	n-Privision Volume		
RAID ID:	RAID		
Unused:	28 % (61.28 GB)		
Allocation:		⇒ 21.9 GB	
OK			

After the size has been determined, click **OK** to confirm. Now you will see the iSCSI thin-provisioning volume is available from the list. Please refer to the screenshot below.

laster AID	ID	RAID Level	Status	Disks Used	Total Capacity	Data Capacity	iSCSI Capacity	
	RAID	0	Healthy	1,2	219.8	0.2 GB / 84.8 GB	91.9 GB	
Volume	Allocation L	.ist						
iscsi ti	arget iSC:	SI Thin-Privi	sion Target	Advance Option				
ISCSU	Thin-Privizio	n Volume						
	Expand (4					
Type	de Externe			Name			Capacity	
	hin-Privision	Volume		iSCSI Thin-Pri	vision Volume		21.9 GB	
IC OCT	Thin-Privisio							
	Modify							
Type	- 1 🥨 wionity	A thereite		Name		0	lapacity	
-78-							- participation of the second s	

Now you can start to create iSCSI targets to join the newly-created iSCSI thin-provision volume. Basically, the iSCSI target under iSCSI thin-provisioning has exactly same settings screen as the standard iSCSI target volume creation. The only difference is the "Virtual Size" of capacity.

Unlike creating standard iSCSI target volumes, the capacity has been physically allocated. The iSCSI target volume creation under thin-provisioning can virtually be up to 16000GB (16TB).

Let's take the example below:

- 1. The physical size for the iSCSI thin-provision volume is 333.88GB. You can refer the screenshot above.
- 2. The iSCSI target volume under thin-provisioning starts with 333.38GB in physical size and you may use drag the Virtual Size bar to select the desired virtual size. The maximum virtual size is 16000GB.
- 3. In this case, if you make the iSCSI target volume 1700GB, then the virtual size is available for the next iSCSI target volume under thin-provisioning is 14300GB (16000-1700).
- 4. The limit is 5 iSCSI target volumes under thin-provisioning or a virtual size of 16000GB.

RAID ID:	RAID
Unused:	18 % (333.88 GB)
Virtual Size::	333.8 GB
COOL TI -	

iSCSI Thin-provision physical size starts with 333.8GB

Unused:	18 % (333.88 GI	3)	
Virtual Size::			16000 GB
iSCSI Target Volume:	🔿 Enable	Disab	de

The virtual capacity is limited to 16000GB

The screen shot for iSCSI target volume creation under thin-provisioning; the physical capacity 333.8GB.

RAID ID:	RAID
Unused:	18 % (333.88 GB)
Virtual Size::	333.8 GB
iSCSI Target Volume:	C Enable S Disable
Target Name:	Limit:(0~9, a~z)
iqn_Year:	2009 💌
iqn_Month:	08 🛩
LUN ID:	2 💌
Authentication:	None O CHAP
Username:	Limit:(0~9, a~z, A~Z)
Password:	
	Limit:(0~9, a~z, A~Z,length between 12~16)
Password Confirm:	
OK	
Description	
he iSCSI block size can be	e set under system advance option, default is 512 Bytes.

The screen shot to setup an iSCSI target volume under thin-provisioning of 1700GB.

Туре	Name	Capacity
SCSI Thin-Privision Volume	iSCSI Thin-Privision Volume	333.8 GB
iSCSI Thin-Privition		
🔾 Add 🛛 🎲 Modify 🛛 🤤 Delete		
Type	Name	Capacity
SCSI Thin-Privision	n55304601	1700 GB

iSCSI target volume creation. The maximum virtual size is 14300GB (16000GB – 1700GB(1st iSCSI target volume)).

ce Allocation			>
Create iSCSI Thin-Pri	vizion		
RAID ID:	RAID		
Unused:	18 % (333.88 GB)	14300CB	
Virtual Size::	e	333.8 GB	
iSCSI Target Volume:	💮 Enable	Oisable	
Target Name:		Limit:(0~9, a~z)	
ion Year:	2009 💌		

This screenshot lists iSCSI target volumes created under thin-provisioning. The 2nd iSCSI target volume under thin-provisioning has been created with a capacity of 14300GB.

Туре	Name	Capacity
iSCSI Thin-Privision Volume	iSCSI Thin-Privision Volume	333.8 GB
iSCSI Thin-Privition		
🔾 Add 🛛 🎲 Modify 🔤 Delete		
Type	Name	Capacity
iSCSI Thin-Privision	n55304601	1700 GB
iSCSI Thin-Privision	n554036002	14300 GB

This message appears if there is no more room for new iSCSI target creation.

Space Al	location	×
8	Not enough free space to allocate. It takes at least 1GB free space to allocate iSCSIUSB volume	

ΝΟΤΕ	Each RAID volume can on	ly create one iSCSI thin-provision volume.
NOTE	Each thin-provision volum	e can only create 5 iSCSI target volumes.
	The notification will send	out while the physical size of iSCSI
	thin-provision capacity ha	s used up to 90%.

Advance Option

There are 2 options is currently allow Admin to Enable/Disable to operate ALLNET ALL60700 associated with iSCSI setting. The details as listed in following screenshot. With the option changed, it will need to reboot system to activate.

Menu	22	💗 My favorite		
📕 System Information 💥 System Management	•	Space Allocation RAID Information		
System Network		Master ID RAID RAID ID Level Status	Disks Total Used Capacity	Data ISCSI Capacity Capacity
Storage		* RAID 0 Healthy	1.2 3722.2	0.2 GB / 3424.4 GB 37.2 GB
C RAID Space Alocation Share Folder Stackable		Volume Allocation List ISCSI Target BCSI Thin-Provision Targe Ad SCSI Block size: SCSI CRC/Checksum: Apply Description The ISCSI block size can be set under sys Please use [4K] block size while more the Please use [512 Bytes] block size for ap	Ider version) 👻	

anged; carry on with press 'Yes' for confirma	tion
	1
size have setting success!!.	
OK	
UN	

iSCSI Block Size

Select the block size with 4K while the iSCSI volume size is over 2TB.

iSCSI CRC/Checksum

To enable this option, the initiator can connect with "Data digest" and "Header digest" enabled.

CRC / Checksum	
☑ Data digest	Header digest

Share Folder

From the **Storage** menu, choose **Share** *Folder*, and the **Folder** screen appears. This screen allows you to create and configure folders on the ALLNET ALL60700 volume.

Menu	88	🥐 My favorite			(
🟓 System Information		Folder			
🗙 System Management	11	Add gest @Remove Gress Gsnacehot E	ACL		
System Network		Folder name >>	RAIDID	File System F	Public Description
Storage	3	 a nsync 	RAD	ext3 r	nayno
-U Disks		usbhdd	RAID	ext3 r	usbhdd
RAID		 usbcopy 	RAID	ext3 r	usbcopy
Space Alocation		Asswebste	RAD	ext3 y	es naswebste
Second Group Authenticat	tion 10	4			>

Adding Folders

On the **Folder** screen, press the **Add** button and the **Add Folder** screen appears. This screen allows you to add a folder. After entering the information, press **Apply** to create new folder.

System Information	Folder				
System Management					
	Eolder name >	RAID ID	File System	Public	Descriptio
Storage	> 🗀 nsync	RAD	ext3	no	nayno
Disks	usbhdd	RAID	ext3	no	usbhdd
C RAID	 usbcopy naswebsite 	RAID	ext3 ext3	no yes	usbcopy naswebsi
ii Space Alocation Share Folder ∑Stackable 2 ISO Mount					
User and Group Authentication					
Application Canvar					
dd folder					
dd folder RAID ID: Folder name:					
dd folder RAID ID:					
dd folder RAID ID: Folder name:					
dd folder RAID ID: Folder name: Description:					
dd folder RAID ID: Folder name: Description: Browseable:	RAID V @ Yes O No				
dd folder RAID ID: Folder name: Description: Browseable: Public:	RAID V @ Yes O No O Yes O No				

Add Folder	
Item	Description
RAID ID	RAID volume where the new folder will reside.
Folder Name	Enter the name of the folder.
Description	Provide a description the folder.
Browseable	Enable or disable users from browsing the folder contents. If Yes is selected, then the share folder will be browseable.
Public	Admit or deny public access to this folder. If Yes is selected, then users do not need to have access permission to write to this folder. When accessing a public folder via FTP, the behavior is similar to anonymous FTP. Anonymous users can upload/download a file to the folder, but they cannot delete a file from the folder.
Share Folder Limit	Enter the maximum size of the folder in Gigabytes (GB). The folder cannot grow beyond this limit. You can enter a 0 to turn off the share folder limit. This option did not apply while XFS file system selected.
Apply	Press Apply to create the folder.

NOTE Folder names are limited to 60 characters. Systems running Windows 98 or earlier may not support file names longer than 15 characters.

Modify Folders

On the **Folder** screen, press the *Edit* button and the **Modify Folder** screen appears. This screen allows you to change folder information. After entering the information, press **Apply** to save your changes.

RAID ID:	RAID 🗡	
Folder name:	nsync	
Description:	nsync	
Browseable:	🔘 Yes 🔘 No	
Public:	🔘 Yes 🛛 🔘 No	
Share Folder Limit:	0 GB	

Modify Folder	
Item	Description
RAID ID	RAID volume where the folder will reside.
Folder Name	Enter the name of the folder.
Description	Provide a description the folder.
Browseable	Enable or disable users from browsing the folder contents. This
	setting will only apply while access via SMB/CIFS and web disk.
Public	Admit or deny public access to this folder.
Share Limit	Enter the maximum size of the folder. The folder will not grow
	beyond this limit. You can enter a 0 to turn off the share folder
	limit.

Remove Folders

To remove a folder, press the **Remove** button from the specified folder row. The system will confirm folder deletion. Press **Yes** to delete the folder permanently or **No** to go back to the folder list.

Folder name »	RAID ID	File System	Public	Description
p insync	RAIDJ	ext3	no	nsync
🕑 🧰 usbhdd	RAIDJ	ext3	no	usbhdd
D 🧰 usbcopy	RAIDJ	ext3	no	usbcopy
🖻 🧰 naswebsite	RAIDJ	ext3	yes	naswebsite
D iTunes_music	RAIDJ	ext3	yes	iTunes_music
IF 🔁 BONNY	RAIDJ	ext3	yes	
Į				1
Info			×	1



All the data stored in the folder will be deleted once the folder is deleted. The data will not be recoverable.

NFS Share

To allow NFS access to the share folder, enable the **NFS Service**, and then set up hosts with access rights by clicking **Add**.

S Adi		Gine: Punte re		Tel Syram Linted	
Mount point: [/	raid0/data/nsync]				
🔅 Edit 🛛 🥥 Re	move				
Host Name	Privilege	OS Support	ID Mapping		

Config NFS share			X
NFS Add			
Mount point: [/raid0	/data/nsync]		
Host Name:	XXX.XXX XXX		
Privilege:			
	🔘 Read Only		
	Writable		
OS Support:			
	O Unix / Linux System		
	⊘ AIX (Allow source port > 1024)		
ID Mapping:			
	Guest system root account will have full access to this share (root:root).		
	Guest system root account will be mapped to anonymous user (nobody.nog	roup) on NAS.	
	💮 All User on guest system will be mapped to anonymous user (nobody.nogro	up) on NAS.	
Apply			
2			

NFS Share	
Item	Description
Hostname	Enter the name or IP address of the host
Privilege	Host has either read only or writeable access to the folder.
Guest System Support	There are two selections available:
	Unix / Linux System
	 AIX (Allow source port > 1024)
	Choose the one which best fits your needs.
IO Mapping	There are three selections available:

	 Guest system root account will have full access to this share (root:root). Guest system root account will be mapped to anonymous user (nobody:nogroup) on NAS. All user on guest system will be mapped to anonymous user (nobody:nogroup) on NAS. Choose the one which best fits your needs.
Apply	Click to save your changes.

Snapshot

The ALLNET ALL60700 is capable for 16 snapshot version control. To have snapshot to work on, the file system creation for RAID volume has to be "**ZFS**".

🔕 Add 🎡 Edit 🥥 Remove 🗔 NFS 🛛 🗔 Snapshot 📑 ACL				
Folder name »	RAID ID	File System	Public	Description
Insync	RAIDJ	ext3	no	nsync
🖻 🧰 usbhdd	RAIDJ	ext3	no	usbhdd
🖻 🧰 usbcopy	RAIDJ	ext3	no	usbcopy
inaswebsite	RAIDJ	ext3	yes	naswebsite
iTunes_music	RAIDJ	ext3	yes	iTunes_music
BONNY	RAIDJ	ext3	yes	

Snap (Snapshot configuration)

If added folder has located in the RAID volume with "ZFS" file system, then the folder management screen with "Snap" button will be configurable.

78		
😳 Take Shot	😑 Remove	

Snapshot	
Item	Description
Take Shot	Click to take snapshot right away.
Remove	Click to remove snapshot schedule.
Schedule	Click to open snapshot schedule setup screen.

Clicking on schedule button then schedule setup screen appear. Checked the enable check box to activate the snapshot scheduled operation.

🔽 Enabled Snaj	oshot Schedule					
Automatical	ly remove old	est snaps	hot			
Schedule Rule:	Monthly	v 1	▼ Day	0	Hour	
Apply	ו					
Apply	J					

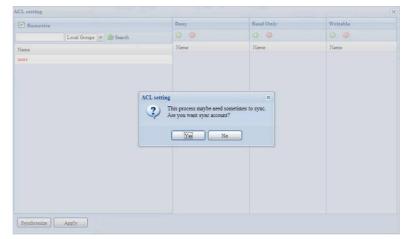
The ALLNET ALL60700 snapshot is supported total **16 versions**. Once checked "Automatically remove oldest snapshot", the oldest will be removed to let newest to added on top. Otherwise, if the check box is unchecked and snapshot versions are up to 16 then system will appear warning message and won't execute the task till available version count.

The snapshot schedule rules can be setup for monthly, weekly or daily. Clicking on **Apply** after firmed with desired schedule

These taken snapshot is only accessible though CIFS/SMB by manually type **\\NAS IP address\snapshot** and invisible from normal access. Also, the taken snapshot version is read only can not be deleted under CIFS/SMB access but only click the "Del" button showing on the screen shot above.

Folder and sub-folders Access Control List (ACL)

On the Folder screen, press the **ACL** button, and the **ACL setting** screen appears. This screen allows you to configure access to the specific folder and sub-folders for users and groups. Select a user or a group from the left hand column and then choose **Deny**, **Read Only**, or **Writable** to configure their access level. Press the **Apply** button to confirm your settings.



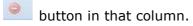
>	I I I I I I I I I I I I I I I I I I I	⊘ ⊜ Name
šame	Name	Name

ACL setting	
Item	Description
Deny	Denies access to users or groups who are displayed in this column.
Read Only	Provides Read Only access to users or groups who are displayed in
	this column.
Writable	Provides Write access to users or groups who are displayed in this

	column.
Recursive	Enable to inherit the access right for all its sub-folders.

To configure folder access, follow the steps below:

- 1. On the **ACL** screen, all network groups and users are listed in the left hand column. Select a group or user from this list.
- 2. With the group or user selected, press one of the buttons from the three access level columns at the top. The group or user then appears in that column and has that level of access to the folder.
- 3. Continue selecting groups and users and assigning them access levels using the column buttons.
- 4. To remove a group or user from an access level column, press the **Remove**



5. When you are finished, press *Apply* to confirm your ACL settings.



To setup sub-folders ACL, click on " \triangleright " symbol to extract sub folders list as screen shot shows below. You may carry on with same steps as share level ACL setting.

Folder name »	RAID ID	File System	Public	Description
🖻 🦲 niyne	8888	ext3	no	nsync
🗈 🧰 usbhdd	8888	ext3	yes	usbhdd
🕨 🦲 usboopy	0000	ext3	no	usbcopy
D 🧰 naswebsite	азаа	ext3	no	naswebsite
🗅 🦲 iTunes_music	0000	ext3	yes	Tunes_mus
D 🧰 test	aaaa	ext3	yes	
a 😁 testl	aaaa	ext3	no	
b i ECR.			no	
b in NetBench			no	

The ACL screen also allows you to search for a particular user. To do this, follow the steps below:

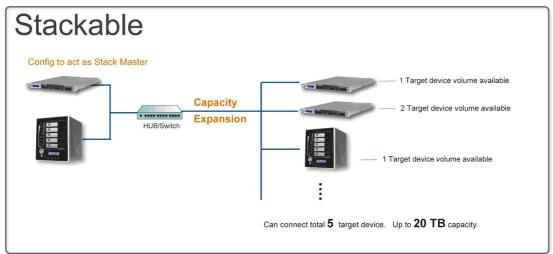
- 1. In the blank, enter the name of the user you would like to find.
- 2. From the drop down select the group you would like to search for the user in.

3. Click *Search*.

а	Local Users 💌	
	Local Groups	
	Local Users	
aaaa	AD Groups	
abcd	AD Users	
	TE The system will list up to 1,000 users from the chosen category	. To na

Stackable NAS

The ALLNET ALL60700's capacity can be expanded even further using the stackable function. With it, users can expand the capacity of their network storage systems up to 5 other stack target volumes which are located in different systems. These can be stacked through single network access like SMB or AFP acting as a share folder type.



From the main menu, the stackable feature is located under "Storage". Please refer the figure below for reference.

Menu	66	💭 My favorite				
🕕 System Information		Stack Target List				
💥 System Management		OAdd OEdt ORemo	ve 🌸 Format 🥖	Reconnect C		
System Network		Export share name	IP	Capacity (Used/Total)	Status	Description
Storage	-					
Disks						
🚄 User and Group Authenticat	ion 💌					

A. Add a Stack Target Volume

From the figure above, click **Add** to access the stackable target device configuration page. Please refer to the figure below:

With the added stack target you could "Enable" or "Disable" now or later per usage needed.

Enable iSCSI Target:	🔵 Enable	Disable	
Stackable Target IP:	172.16.65	157 Discovery	
iqn:	iqn.2009-	5.com.thecus:XFS.iscsi0.vg0.iscsi 💌	
Username:			
Password:	[
Export share name:		(Limit :	(0~9,a~z))
Description:			
Browseable:	🖲 yes	🔘 no	
Public:	🔘 yes	i ng	

Next, input the target IP address of the stackable device and click the **Discovery** button. The system will list available target volumes from the inputted IP address.

Once IP with volume have been set, you may need to input a valid user name and password to validate your access rights. If there is no user name and password needed to access target volume, then leave it blank.

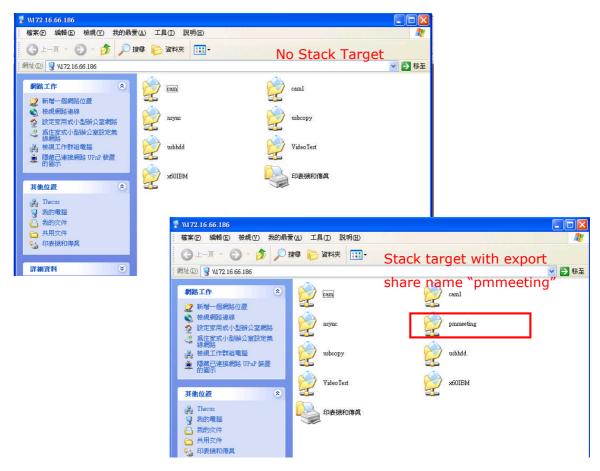
Once IP with volume have been set, you may need to input a valid user name and password to validate your access rights. If there is no user name and password needed to access target volume, then leave it blank.

Enable iSCSI Target:	🔘 Enable	O Disab	ble		
Stackable Target IP:	172.16.65	.157	Discovery		
iqn:	iqn.2009-0	05.com.thecu	s:XFS.iscsi0.vg0.iscsi	i 📉	
Username:					
Password:	1				
Export share name:				(Limit:(0~9,a~z))	
Description:					
Browseable:	() yes	🔘 no			
Public:	🔘 yes	ino ino			
//					
Apply					

The **Export share name** will become the network share name and displayed through network access such as SMB. You may refer the figures below to see the result. Please note the naming limitation.

Add iSCSI Target (Ad	ld Stack Target)	>
Enable iSCSI Target:	e Enable	
Stackable Target IP:	172.16.66.39	
iqn:	iqn.2009-6.com.thecus:aaaa.iscsi0.vg0.abcd 🌱	
Username:		
Password:		
Export share name:	pmmeeting (Limit:(0~9, a~z))	
Description:		
Browseable:	🖲 yes 🔘 no	
Public:	🕗 yes 🔘 no	
Apply		
- Apply		

From the figure above, the **Export share name** is "pmmeeting". The figures below show the result before and after via Microsoft Network Access with settings have been completed.



The **Browseable** setting will be same method of setting for system share folder. It designates whether or not this folder will be visible through web disk. You may refer the figures below for reference when **Yes** and **No** are selected.

dd iSCSI Target (A Enable i8CSI Target:			e		
Stackable Target IP:	172.16.65	.157	Discovery		
iqn:	iqn.2009-0	05.co	S.iscsi0.vg0.iscsi	~	
Username:					
Password:	[
Export share name:				(Limit:(0~9, a~z))	
Description:					
Browseable:	Ø yes	🔘 no			
	🔘 yes	ind ind			

The **Public** setting will be set same as what the setting for the system share folder associated with the ACL permission setup. If **Public** is set to **Yes**, all users will be able to access it, and **ACL** button will be grayed out. If **Public** is set to **No**, the ACL button will be available on the **Stack Target List** window.

Enable iSCSI Target:	🔘 Enable	Oisabl	e		
Stackable Target IP:	172.16.65.	157	Discovery		
iqn:	iqn.2009-0)5.co	S.iscsi0.vg0.iscsi		
Username:					
Password:	1				
Export share name:	1			(Limit:(0~9,a~z))	
Description:	-				
Browseable:	yes	🔘 no	I		
Public:	🔘 yes	1 ng			

Click **Apply** to save your changes.

B. Activate a Stack Target

After your settings have been applied, the system will bring you back to **Stack Target List** window as shown below. There is one stack target device has been attached into this stack master.

Stack Target List					
🔘 Add 🛛 🍪 Edit 🥥 Remove	👘 Format 🛛 🍠 Rec	onnect 🛛 🏙 ACL			
Frank a base of the second	P	Capacity (Used/Total)	Status	Description	ign
Export share name	- H-	oupdoily (obour orally			1 202

ixport share name	IP 172.16.65.157	Capacity (Used/Total) N/A	Status Unknown fi	Description le s:	lqn iqn,2009-05.c
N 🔁 isosi	172.16.65.157	N/A	Unknown fi	lë si	iqn.2009-05.c
Success You have succ	cessfully formatted st	×] ack folder - [iscsi]			

With this newly attached stack target device, you will see the information displayed and also several options you can choose.

In general, if attached stack target device has been used by another ALL6600iSCSI/ALL6700/ALL60700/ALL6800/ALL60800/ALL6900/ALL69000 as stack target volume, then the **Format** item will be display and system will recognize it straight away and display its capacity. Otherwise, the **Format** item will be available and the **Capacity** and **Status** items will show as "N/A" and "Unknown file system" respectively.

Next, click *Format* to proceed with formatting.

After the format is complete, the stack target volume will be created successfully. You will see the volume's capacity and status in the **Stack Target List** screen.

C. Edit a Stack Target

To make any changes to stack targets, click *Edit* for the corresponding stack target, and system will bring up the following dialogue:

dit iSCSI Target			>
Enable iSCSI Target:	💿 Enable 🛛 🔿 Dis	able	
Stackable Target IP:	172.16.65.157	Discovery	
iqn:	iqn.2009-05.com	👻 rezei Ogy Otszel 🎖	
Username:			
Password:			
Export share name:	iscsi	(Limit:(0~9, a~z))	
Description:			
Browseable:	🖲 yes 🚫 no		
Public:	💿 yes 🔘 no		
Foone.	yes O no		
Apply			
1987.2 B			

After your changes have been made, click **Apply** to confirm any modifications. Once changes are applied, the associated information will be updated on the **Stack Target List** window.

D. Stack Target ACL

If the stack target **Public** setting set to **Yes**, then the **ACL** button will be grayed out. However, if **Public** setting is set to **No**, then the **ACL** button will be available for you to setup user access permissions for the stack target. **ACL** settings will be exactly the same as system folder that you may have setup previously.

Recursive	e	Deny	Read Only	Writable
	Local Groups 💌 🌸 Search	0 0	0 0	010
Vame		Name	Name	Name
isers				

E. Reconnect a Stack Target

The enabled stack target devices may be disconnected by situations such as power outages or network disconnects. When this happens, the **Reconnect** button will available. To attempt to reconnect the stack target, click **Reconnect**.

Export share name IP Capacity (Used/Total) Status Description iqn iscsi 172.16.65.157 0 GB / 0.1 GB Disable iqn.2 Stack Target List Q Add @Edit @Remove #Firmur #Reconnect @rite
- Stack Target List
Export share name IP Capacity (Used/Total) Status Description ign
Capacity (Securicial) Status Description (c) Capacity (Securicial) Status Description (c) Capacity (Securicial) Status Description (c) Capacity (Securicial) Status Description Capacity (Securicial) Status Securicial

ISO Mount

The ISO Mount feature is very useful tool from ALLNET products. With it, users can mount an ISO file and having export name to display all details from mounted ISO file.

From the main menu, the ISO Mount feature is located under "Storage". Please refer the figure below for reference.

Menu	80	🧶 My favorite		🧑 I
J System Information	.*7	ISO Mount		
💥 System Management	.*.]	naswebsite 🕿		
System Network	19	Count Count		
Storage	E.	Mounted Path -	ISO Path	ISO Size
Closks		Description		Ne ise meant information to display
		Maxmum 50 ISO files can be mounted in tota	al.	
Ser and Group Authenticat	ion 🖭			

Select on the ISO mount function and you will have the screen shot appear as following.

A. Add a ISO file

From the figure above, select ISO file from drop down share list.

*		
nsync		
usbhdd		
usbcopy	ISO Path	ISO Size
naswebsite		
iTunes_music		

After selection, system will bring up Mount table for further setting screen.

ISO filter	Commount Commount	
 aswebsite BT Seed Andy Weekly Report AMD Bestlech GT ACS блхх ASC блхх AMC Adobe Acrobat 7.0 Pro AtoM Andy Private 	Mounted Path • ISO Pa	
File Selected:	[∬ 4 Page 1 of 1 ▷ 0] 2	No iso mount information to display
Mount as:	Description Only ISO 9660 file system can be mounted. Top 50 Folders Top 50 Files Please type in the full path of the ISO if not listed.	

	Onmount		
 Tasswebsite Tasswebsite Tasswebsite Tashy Weakly Report Taby Weakly Report Taby Taby Taby Taby Taby Taby Taby Taby	Mounted Path *	ISO Path	ISO Size
	0f 1 D 0 2	N	o iso mount information to display
ile Selected: /naswebsite/Thecus 01	iso		
ile Selected: /naswebsite/Thecus 01	Liso Description		

To mount new ISO file, select from listed ISO file and input desired mounting name into "Mount as:" field. Click "ADD" with confirmation to complete mounting ISO file. Or without "Mount as" ISO file export name input, system will automatic to give the export name by ISO file name.

If left "Mount as:" blink then system will create mount point by ISO file name. $\hfill \square$

ISO filter		😂 Unmount	7	
AMD	ed Woekly Report ch GT Sobox 2 Actrobat 7.0 Pro 4	ISO Mount 2 Are you sure to mo Yes N		ISO Size
		🕅 🔍 Page 🚺 of 1 🕞 🕅	8	No iso mount information to display
File Selected:	/naswebsite/Thecus 01 iso	Description		
Mount as:]	Only ISO 9660 file system can be mount Top 50 Folders Top 50 Files Please type in the full path of the ISO if n		
		l Unmount		
ISO filter		V	ISO Path	ISO Size
anaswebsit BT Se Andy Andy Bestte ACS 6 A250	ed Weekity Report th GT xxx	Mounted Path *	150 Path	150 Size
E Ti E Ti	Hicrobal 7.0 Pro	ISO Mount inaswebi ^{10, ret.} 01.is DR	× o is mounted!	
File Selected:	/naswebsite/Thecus 01.iso	M ⊲ Page of 1 D M	2	No iso mount information to display
Mount as:	meaweusiter meeus of 150	Description		
		Only ISO 9660 file system can be mount Top 50 Folders	ted.	

After you have completed to add ISO then the page will displayed all mounted ISO files,

ISO filter	Co Unmount		
🖌 🔁 naswebsite	Mounted Path 🖛	ISO Path	ISO Size
 Image: Seed Image: Image: Image:	/naswebsite	/naswebsiti o	102.8MB
▷ Thecus 01 ▷ Besttech GT ▷ ACS 6xxx ▷ AACC □ Thecus 01.iso □ Thecus 01.iso □ Thecus 01.iso □ Thecus 01.iso □ AtOM ▷ AtOM	₩ 4 Page 1 of 1 ▷ ▷ @	Display	ring iso mount information 1 - 1 of 1
File Selected:			
Mount as:	Description Only ISO 9660 file system can be mounted. Top 50 Folders Top 50 Files Please type in the full path of the ISO if not list	ed.	

You could click "Unmount" to eliminate mounted ISO file.

B. Using ISO

The mounted ISO file will be located same share folder with name giving. Please refer the screen shot below.

ISO file "image" has mounted as folder "Image" you could see. The ISO file "ALLNET 01" without assign mounting name, system automatically has folder "ALLNET 01" created.

🍹 naswebsite (位於 N5200-NEWUI (172.16	5.66.40))			_ 8 ×
檔案(E) 編輯(E) 檢視(Y) 我的最愛				
🔆 土一頁 🔹 🌏 🔹 🏂 📌 🍞 🍃	🔾 搜尋 🌔 資料夾 🛄 👻			
網址(D) 🞯 \\172.16.66.40\naswebsite				▼ 🛃 移至
檔案及資料夾工作 *	АСЅ бххх	Adobe Acrobat 7.0 Pro	AMCC	
建立新的資料夾 將這個資料夾發佈到網站	AMD	Andy Private	Andy Weekly Report	
其他位置	ATOM	Bestlach GT	BT Seed	
詳細資料 ※				

User and Group Authentication

The ALLNET ALL60700 has built-in user database that allows administrators to manage user access using different group policies. From the **User and Group Authentication** menu, you can create, modify, and delete users, and assign them to groups that you designate.

ADS/NT Support

If you have a Windows Active Directory Server (ADS) or Windows NT server to handle the domain security in your network, you can simply enable the ADS/NT support feature; the ALLNET ALL60700 will connect with the ADS/NT server and get all the information of the domain users and groups automatically. From the **Accounts** menu, choose **Authentication** item and the **ADS/NT Support** screen appears. You can to change any of these items and press **Apply** to confirm your settings.

Menu	55	My favorite		
System Information System Management	*	ADS/NT Support Work Group/Domain Name :	MYGROUP	_
System Network	(*)	ADS/NT Support :	O Enable	Oisable
Storage		Authentication Method :	ADS	O NT
User and Group Authentication		ADS/NT Server Name : ADS/NT Realm : Administrator ID ; Administrator Password : Apply		

A description of each item follows:

ADS/NT Support				
Item	Description			
Work Group / Domain	Specifies the SMB/CIFS Work Group / ADS Domain Name (e.g.			
Name	MYGROUP).			
ADS/NT Support	Select Disable to disable authentication through Windows Active			
	Directory Server or Windows NT.			
Authentication Method	Select ADS for Windows Active Directory Server, or select NT for			
	Windows NT			
ADS/NT Server Name	Specifies the ADS/NT server name (e.g. adservername).			
ADS/NT Realm	Specifies the ADS/NT realm (e.g. example.com).			
Administrator ID	Enter the administrators ID of Windows Active Directory or			
	Windows NT, which is required for ALLNET ALL60700 to join			
	domain.			
Administrator	Enter the ADS/NT Administrator password.			
Password				
Apply	To save your settings.			

To join an AD domain, you can refer the figure and use the example below to configure the ALLNET ALL60700 for associated filed input:

	operties		?
General	Network Iden	tification Hardware User Pro	ofiles Advanced
Q	Windows u: on the netw	ses the following information to i ork.	dentify your computer
	nputer name:	computer1.domain.local	
Domain		domain.local Work Gro	up/Domain Name
To rena Propert		<mark>tealm</mark> ter or join a domain, click	Properties
	sinpator is a ac	main controller.	
	Sinputor is a de	inair contoilei.	
		inan contone.	
		inan contone.	
			ancel Apply

AD Domain Example			
Item	Information		
Work Group / Domain	domain		
Name			
ADS Support	Enable		
ADS Server Name	Computer1		
ADS/NT Realm	Domain.local		
Administrator ID	Administrator		
Administrator	****		
Password			

ΝΟΤΕ	 The DNS server specified in the WAN/LAN1 configuration page should be able to correctly resolve the ADS server name. The time zone setting between ALLNET IP storage and ADS should be identical. The system time difference between ALLNET IP storage and ADS should be less than five minutes. The Administrator Password field is for the password of ADS (Active Directory Server) not ALLNET IP storage.

Local User Configuration

From the **Accounts** menu, choose the **User** item, and the **Local User Configuration** screen appears. This screen allows you to **Add**, **Edit**, and **Remove** local users.

Menu	< <u><</u>	🤎 My favorite	1 🌍
🟓 System Information	+	Local User Configuration	
💥 System Management	(*)	😮 Add 🛛 🚱 Remove	
System Network	.*)	User ID User Name	
Storage			
🗳 User and Group Authentication	-		
ADS Local User St User Batch Input			
Application Server			
📽 Module management		[4 4 Page1 of 1 ≥ ≥] 22	No topics to display

Local User Co	nfiguration
Item	Description
Add	Press the Add button to add a user to the list of local users.
Edit	Press the <i>Edit</i> button to modify a local user.
Remove	Press the Remove button to delete a selected user from the
	system.

Add Users

- 1. Click on the *Add* button on **Local User Configuration** screen, and **Local User Setting** screen appears.
- 2. On the **Local User Setting** screen, enter a name in the **User Name** box.

- 3. Enter a **User ID** number. If left blank, the system will automatically assign one.
- 4. Enter a password in the **Password** box and re-enter the password in the **Confirm** box.
- 5. Select which group the user will belong to. **Group Members** is a list of groups this user belongs to. **Group List** is a list of groups this user does not belong to. Use the << or >> buttons to have this user join or leave a group.
- Local User Setting Group List Search: 0 User Name: ł System Informatio GroupID Group Name User ID: 💥 System Manageme 140 t5 Password: System Network Confirm Password: Group Members 🗳 User and Group Aut GroupID Group Name 102 users 🗃 🧮 Local Si User Batch Input Application Server # Module management Apply All users are automatically assigned to the 'users' group. NOTE
- 6. Press the *Apply* button and the user is created.

Edit Users

- 1. Select an existing user from the **Local User Configuration** screen.
- 2. Click on the *Edit* button, and Local User Setting screen appears.
- 3. From here, you can enter a new password and re-enter to confirm, or use the << or >> buttons to have this user join or leave a group. Click the **Apply** button to save your changes.

Local User Settin	ıg	Group List		
User Name:	User	Search:		
User ID:	1002	GroupID	Group Name	
Password:	•••••			
Confirm Password:	•••••			
Group Members				
GroupID	Group Name			
102	users			

Remove Users

- 1. Select an existing user from the **Local User Configuration** screen.
- 2. Click on *Remove* button and the user is deleted from the system.

🔘 Add 🛛 🤯 Edit	C Remove	
User ID	User Name	
1002	User	
L	cal User Setting	

Local Group Configuration

From the **Accounts** menu, choose the *Group* item, and the **Local Group Configuration** screen appears. This screen allows you to **Add**, **Edit**, and **Remove** local groups.

	Remove	
Group ID	Group Name	
102	USERS	

Local Group	Configuration
Item	Description
Add	Press the Add button to add a user to the list of local groups.
Edit	Press the <i>Edit</i> button to modify a selected group from the system.
Remove	Press the Remove button to delete a selected group from the
	system.

Add Groups

- 1. On the **Local Group Configuration** screen, click on the **Add** button.
- 2. The Local Group Setting screen appears.
- 3. Enter a **Group Name**.
- 4. Enter a **Group ID** number. If left blank, the system will automatically assign one.
- 5. Select users to be in this group from the **Users List** by adding them to the **Members List** using the **<<** button.
- 6. Click the *Apply* button to save your changes.

Local Group S	ietting	Users List		
Froup Name:		Search:		
Froup ID:	103	UserID	User Name	
Members List		1002	User	
	Taxing and			
UserID	User Name			
UserID	User Name			
UserID	User Name			
UserID	User Name			
UserID	User Name			
UserID	User Name			
UserID	User Name			
UserID	User Name			
UserID	User Name			
UserID	User Name			

Edit Groups

- 1. On the **Local Group Configuration** screen, select a group name from the list.
- 2. Press the *Edit* button to modify the members in a group.
- 3. To add a user into a group, select the user from the **Users List**, and press the **<<** button to move the user into the **Members List**.
- 4. To remove a user from a group, select the user from **Members List**, and press the **>>** button.
- 5. Click the **Apply** button to save your changes.

Remove Groups

- 1. On the **Local Group Configuration** screen, select a group name from the list.
- 2. Press *Remove* to delete the group from the system.

🔘 Add 🛛 🎲 Edit	🥪 Kemove	
Group ID	Group Name	
103	Group	
102	users	

Batch Create Users and Groups

The ALLNET ALL60700 can also add users and groups in batch mode. This enables you to conveniently add numerous users and groups automatically by importing a simple comma-separated plain text (*.txt) file.

From the **Accounts** menu, click **Batch Mgmt** and the **Batch Create Users and Groups dialogue** will appear. To import your list of users and groups, follow these steps:

1. Click **Browse...** to locate your comma-separated text file. The information in the text file should follow this format:

[USERNAME], [PASSWORD], [GROUP]

- 2. Click **Open**.
- 3. Click *Import* to begin the user list import.

Menu	3	🖗 My favorite 🛛 🙆 📱
5ystem Information	(•)	Batch Create Users and Groups
💥 System Management	•)	Please choose a file to upload.
System Network	.*1	
Storage	٠	
User and Group Authentication	(r)	Apply: Description Create local users and groups in batch mode. Submit files containing user names, passwords, and group names separated by comma without any space, each line represents one user. (ex. Student1,password1,student_group)

Application Server

The ALLNET ALL60700 supports printer server, and Tunes server. The integrated Print Server allows you to share a single USB printer will all users on the network. The ALLNET ALL60700 provides activating the iTunes Server on the device. You will be able to play music files on this device with your iTunes client software directly. The following section shows you how.

Printer Information

From the **Application Server** menu, choose the **Printer** item, and the **Printer Information** screen appears. This screen provides the following information about the USB printer connected to the USB port.

Menu	(C)	🧭 My favorite	
📜 System Information		Printer Information	
🛠 System Management		Printer 1	
System Network	.*)		
E Storage	<u>.</u>	Manufacturer:	N/A N/A
Ser and Group Authentication	21	Model: Status:	N/A No Printer Detected
Application Server		Remove document from queue: Restart printer service:	allemere a

Printer Inform	nation
Item	Description
Manufacturer	Displays the name of the USB printer manufacturer.
Model	Displays the model of the USB printer.
Status	Displays the status of the USB printer.
Remove document	Click to remove all documents from printer queue
from Queue	
Restart Printer service	Click to restart printer service

If a corrupt print job is sent to a printer, printing may suddenly fail. If your print jobs seem to be locked up, pressing the **Remove All Documents** button to clear the print queue may resolve the issue.

You can configure ALLNET ALL60700 to act as a printer server. That way, all PCs connected to the network can utilize the same printer.

Windows XP SP2

To set up the Printer Server in Windows XP SP2, follow the steps below:

- 1. Connect the USB printer to one of the USB ports (preferably the rear USB ports; front USB ports can be used for external HDD enclosures).
- 2. Go to **Start** > **Printers and Faxes**.
- 3. Click on **File > Add Printer**.
- 4. The Add Printer Wizard appears on your screen. Click Next.
- 5. Select the "*A network printer, or a printer attached to another computer*" option.
- Select "Connect to a printer on the Internet or on a home or office network", and enter "http://ALLNET ALL60700 IP_ADDRESS:631/printers/usb-printer" into the URL field.
- 7. Your Windows system will ask you to install drivers for your printer. Select correct driver for your printer.
- 8. Your Windows system will ask you if you want to set this printer as "Default Printer". Select **Yes** and all your print jobs will be submitted to this printer by default. Click **Next**.
- 9. Click *Finish*.

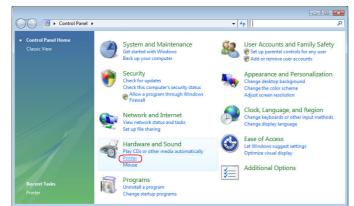
NOTE

- Not all USB printers are supported. Please check ALLNET website for a list of supported printers.
- Note that if a multi-function (all-in-one) printer is attached to the ALLNET IP Storage, usually only the printing and fax functions will work. Other features, such as scanning, will probably not function.

Windows Vista

To set up the Printer Server in Windows Vista, follow the steps below:

1. Open *Printer Folder* from the Control Panel.



2. Click the right mouse button in anywhere on the **Printers** folder and then select **Add Printer**.

🔵 🔵 🦛 « Hardwar	e and Sound	• Finiters		▼ 49 Se	arch		Q
🔄 Organize 👻 🔠 View	s 💌 🕌 Ad	ld a printer		_			(?)
Favorite Links	Name	Documents	Status	Comments	Location	Model	
Documents Pictures Music	attenty 0	ax eady	197	Writer 0	ft XPS Docume	nt	
More »			View				
Folders 🗸			Sort By				
E Desktop			Group By				
📓 fae			Stack By				
🌽 Public			Refresh				
Provider Computer			Paste		-		
Control Panel			Paste Paste Short				
Additional Opt							
Nopearance ar			Undo Copy	L.	trl+Z		
S Clock, Langua			Run as adm	inistrator			
Sease of Access			Add Printer				
👼 Hardware and			Server Prop				
🗾 AutoPlay			Server Prop	ertres			

3. Select Add a network, wireless or Bluetooth printer.

80	dd Printer ose a local or network printer
•	Add a <u>l</u> ocal printer Use this option only if you don't have a USB printer. (Windows automatically installs USB printers when you plug them in.)
•	Add a network, wireless or Bluetooth printer Make sure that your computer is connected to the network, or that your Bluetoot or wireless printer is turned on.

4. Select *The printer that I want isn't listed*.

Searching for a	available printers	
		Stop

You can press **The printer that I want isn't listed** to go into next page without waiting for **Searching for available printers** to finish.

5. Click **Select a shared printer by name**.

Find a printer by	/ name or TCP/IP address	
Browse for a printer		
Select a shared print	ter by name	
http://«	>:631/printers/usb-printer	Browse
	utername\printername or hame/printers/printername/.printer	
Add a printer using	a TCP/IP address or hostname	

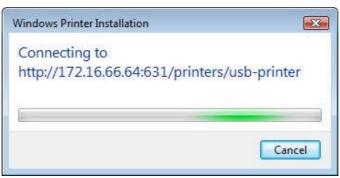
Type http://<ALLNET_NAS>:631/printers/usb-printer in the box, where <ALLNET_NAS_IP> is the IP address of ALLNET ALL60700. Click **Next**.

6. Select or install a printer and then press **OK**.

Manufacturer	Printers	
HP IBM infotec Konica KONICA MINOLITA	HP DeskJet 615C HP DeskJet 640C/642C/648C HP Deskjet 6500 Series	

If your printer model is not listed, please contact your printer manufacturer for help.

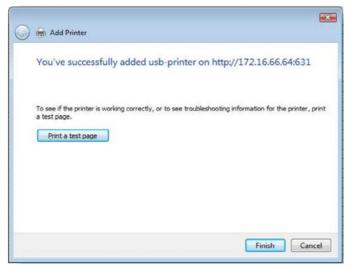
7. Windows will attempt to connect to the printer.



8. You can choose to set this printer as the default printer by checking the **Set as the default printer** box. Click **Next** to continue.

Add Printer	
Type a printe	er name
Printer name:	usb-printer on http://172.16.66.64:631
	Set as the default printer
This printer has be	een installed with the HP Deskjet 6500 Series driver.
	Next

9. Done! Click Finish.



iTunes® Server

With the built-in iTunes server capability, ALLNET ALL60700 enables digital music to be shared and played anywhere on the network!

From the **Network** menu, choose the *iTunes* item, and the *iTunes* **Configuration** screen appears. You may enable or disable the iTunes Service from here. Once enabled, enter correct information for each field and press *Apply* to save your changes.

Menu	SC.	🤎 My favorite		
1 System Information		- ITunes Configuration	e.	
🗙 System Management	(#)	(Tunes:	🙆 Enable	Disable
System Network		Server Name:	NVR42	1
Storage		Password:		j
Subser and Group Authentication		Rescan Interval:	20 minutes 😭	
Application Server		MP3 Tag Encode:	150 💌	
Printer		Apply		

See the following table for detailed descriptions of each field:

iTunes Configuration			
Item	Description		
iTunes	Enable or disable the iTunes Service.		
Server Name	Name used to identify ALLNET ALL60700 to iTunes clients.		
Password	Enter password to control access to your iTunes music.		
Rescan Interval	Rescan interval in seconds.		
MP3 Tag Encode	Specify tag encoding for MP3 files stored in ALLNET ALL60700. All		
	ID3 tags will be sent out in UTF-8 format.		

Once the iTunes service is enabled, ALLNET ALL60700 will make all music located in the **Music** folder available for iTunes-equipped computers on the network.

Module Management

Module Installation

From the **Module Management** menu, choose the **Module Installation** item and the **Module Management** screen appears. From here, you can install separate software modules to extend the functionality of your ALLNET ALL60700.

🚺 My favorite	崎 📭
RAID Information	
🚫 Create 🛛 🎲 Edit	
Mas ID RAID Status Disks Total Data iSCSI	
Capacity Capacity Capacity Capacity	
	RAID Information

System Module

The system module is officially provided by ALLNET for new features added. The module will list once it has been enabled from "Module Installation".



User Module

The user module is reserved for ALLNET fans to build up 3rd party functions in the future.

Backup

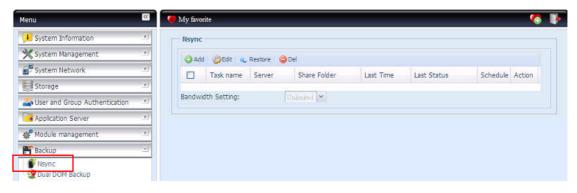
There are a number of ways to back up data with the ALLNET ALL60700.

Nsync

You can backup a share folder to another ALLNET ALL60700 (Nsync Target) or any FTP server for safe keeping as long as you have appropriate access right on that target.

If the files on your ALLNET ALL60700 are lost for any reason, you can restore those files from the target ALLNET ALL60700. To backup files regularly, you can set up a scheduled task to run only once, daily, weekly, or monthly. You can also limit the bandwidth of your Nsync tasks, so other users on the network can share the bandwidth equally.

Under the **Backup** menu, click **Nsync** and the **Nsync** window appears.



Below is a description of each field:

Nsync	
Item	Description
Add	Click to add a Nsync task
Edit	Click to Edit an Nsync task.
Restore	Restore share folder from an Nsync target.
Del	Click to delete an Nsync task. Backup files on Nsync target is also
	deleted.
Task name	The name of your Nsync task.
Server	The IP address of your target server
Share folder	The share folder you would want to backup.
Last Time	The time when the last Nsync task was executed.

Last Status	The status of your last Nsync task.		
Schedule	Schedule backup of your share folders.		
Action	Administrator can run or stop an Nsync task by pressing the action		
	button.		
Bandwidth Setting	Bandwidth control on Nsync tasks.		

Add Nsync Task

From the **Nsync** screen, click **Add** to display the **Add Nsync Task** screen.

isync				
Add Nsync Task				^
Task name:	Nsync_task_1			
Target Server Manufacturer:	NAS	C Legacy FTP Server	O Native Rsync Server	
Nsync Mode:				
	() Synchronize (C	compare source and target ther	n delete unexist files)	
	🔘 Incremental (C	opy file from source to target)	NS	
Target Server IP address:	1			
Share Folder:	naswebsite 💌			
Authorized Username on Target Server:	2			
Password on Target Server:	1			
Test Connection:			<u>A</u>	
			10	
Test Connection	-		25	
- Schedule	competition 1			
Enable/Disable:	 Enable 	O Disable		
Timer				
t	TORON (W)			>

Add Nsync Task			
Item	Description		
Task Name	The name of your Nsync task.		
Target Server	Select replication to method, it has 3 options can choose from.		
Manufacturer	NAS: To other ALLNET ALL60700 with security tunnel build up.		
	Legacy FTP: To the 3 rd party FTP server or ALLNET ALL60700 while		
	it has acted as FTP server.		
	Native Rsync Server: Using rsync to replicate data to other		
	ALLNET ALL60700		
Nsync Mode	Synchronize mode or Incremental mode .		
Target Server IP	The IP address of your target server.		
Address			
Source Folder	The share folder you want to backup.		
Authorized Username	The account name on the target server.		
on Target Server			
Password on Target	The password for the username on the target server.		
Server			
Test Connection	Click to check the connection to the Target Server.		
Schedule	Enable or Disable schedule backup of your share folders.		
Time	The time when the Nsync task will run.		
Туре	Select whether to run the Nsync task daily, weekly, or monthly.		
	Daily: input the time of day to execute Nsync task.		
	Weekly: input which day of the week to execute the task.		
	Monthly: decide which day of the month to execute the task.		
Add	Press Add to submit your settings.		

NOTE

Before starting an Nsync Task, make sure the target server's Nsync Server (or FTP Server) is enabled.



Using "Native Rsync Server" to backup data to other ALLNET NAS devices needs to enable target server and setup a valid username and password to grant access permission.

Setting up an Nsync Target on an ALLNET ALL60700 Nsync Device

On the Nsync target server, the administrator of that server has to set up a user account with a folder named "nsync" and grant write access.

- On the Nsync server, add a user for Nsync source (ex. nsyncsource1). For instructions on how to add a user on the ALLNET ALL60700, see Chapter 4: User and Groups Authentication> Local User Configuration > Add Users.
- On the Nsync server, grant that user (ex. nsyncsource1) write access to the nsync folder. For instructions on how to set up a folder's ACL, see Chapter 4: Storage management> Shore Folder> Folder Access
 Control List (ACL).
- 3. Once this is done, the target server will start accepting Nsync tasks from server using that ID and password.

Setting Up an Nsync Target on another Device other than ALLNET ALL60700

If you selected "Legacy FTP Server" when setting up your Nsync task, the ALLNET ALL60700 will use the FTP protocol to back up the share folder. On the external storage device, make sure there is a folder named "nsync", and the Auth ID has writable permission in that folder.

Designating ALLNET ALL60700 as an Nsync Target

The ALLNET ALL60700 can act as an Nsync server, enabling another Nsync-equipped ALLNET NAS at a remote location backup their files to this ALLNET ALL60700. From the **System Network** menu, choose the **Nsync Target** item, and the **Nsync Target Server** screen appears.

Nsync Target Server Setting		
Item	Description	
Nsync Target Server	Enable or Disable Nsync Target support.	

NOTE	To enable Nsync task to go thru firewall, you have to open port TCP/1194 on
	your firewall in both directions.

Dual DOM

The unique Dual DOM feature can now perform "Auto Repair". The ALLNET NAS will backup up to five versions of the system configuration either by the default timing of 1:00am every day automatically or as scheduled by the user.

This unique "Auto Repair" will be triggered if the primary DOM has a booting issue. In this instance, the 2nd DOM will take over the boot function. Then, the system will automatically load the most recent system configuration backup image to repair the primary DOM.

Menu 🥙	🤎 My favorite			6
📕 System Information 👘	- Dual DOM Schedule Back	ip		
💥 System Management 👘	Enable/Disable Dual DOM :	chedule backup		
System Network	Auto			
Storage 🔹	O Daly 00.00			
🗳 User and Group Authentication 👘 💷	O Weekly Sunlay	0000		
Application Server	O Monthly	00.00		
💣 Module management 🔹 🕚	Status:	Decision - 11		
👫 Backup 🖃	Manually Apply			
B Nsync Dual DOM Backup				
Solar born backap	Dual DOM Backup Status			
	Task Name	Date	Firmware	
	backup_0000001	2010/08/05 23:00	3.04.00.3	
	backup_0000000	2010/07/24 17:00	3.02.01	

ALLNET Backup Utility

The ALLNET Backup Utility is on your Installation CD. When you click on the CD, the Backup Utility will be installed under **Program Groups** > **ALLNET** > **ALLNET Backup Utility**. If it is not installed, you can copy the file (**ALLNET Backup Utility.exe**) to a convenient location on your hard disk and double click to execute it.



When you execute this utility for the first time, it will ask you whether to create a DB file. Click **Yes**.

1. Click *Add* to create a Backup task. The **Add New Task** dialog box appears.

Add New Task		
Item	Description	
Task	Specifies a name for the current task.	
Source	Click to specify the source folder/file location.	
Incremental	Click to specify whether the backup will be incremental.	
	If unchecked, the backup will be a full backup.	
Destination	Click to specify the destination folder/file location.	
Excluded extensions	Files with these file name extensions will be skipped and not back	
	up to the destination.	
Comments	If you wish, enter comments here for your records.	

- 2. To schedule the task to run at regular intervals, click on the *Schedule* icon for that task. You can schedule the task to run **Monthly** or **Weekly**.
- 3. To check the log for that task, click on the *Log* icon for that task.

NOTE

ALLNET Backup Utility also supports MAC OS X. Just copy the ALLNET Backup Utility.dmg to your MAC OS X machine and double click to execute it.

Windows XP Data Backup

If you use Windows XP Professional, you can also use the Windows Backup Utility (Ntbackup.exe) to backup your files.

If you use Windows XP Home Edition, follow these steps to install the utility:

- Insert the Windows XP CD into a drive and double-click the CD icon in My Computer.
- 2. When the Welcome to Microsoft Windows XP screen appears, click **Perform Additional Tasks**.
- 3. Click *Browse this CD*.
- 4. In Windows Explorer, navigate to *ValueAdd* > *Msft* > *Ntbackup*.
- 5. Double-click *Ntbackup.msi* to install the backup utility.

Once installed, you can use the Windows Backup Utility by following the steps below:

- Click Start, and point to All Programs > Accessories > System Tools > Backup to start the wizard.
- 2. Click *Next* to skip past the opening page. Choose **Backup files and settings** from the second page, and then click *Next*.
- 3. Select which option you want to back up.
- 4. Click **Next** and in the Backup Type, Destination, and Name page, specify a back up location using the **Browse** button.
- 5. Find and select the drive that specifies your ALLNET ALL60700 as your backup destination and click **Next**.
- 6. Click **Next** to display the wizard's final page and click **Finish** to start backing up.

Apple OS X Backup Utilities

Mac OS X does not include any backup software. However, there are a number of backup solutions available for the Mac OS X, including: iBackup, Psyncx, iMSafe, Rsyncx, Folder Synchronizer X, Tri-BACKUP, Impression, Intego Personal Backup, SilverKeeper, and Apple's dotMac Backup utility to name just a few. To find even more freeware and shareware backup utilities to choose from, go to VersionTracker or MacUpdate and search on "backup".

Chapter 5: Using ALLNET ALL60700

Overview

Once the ALLNET ALL60700 is setup and operating, users on the network may manage all varieties of digital music, photos, or files by simply using their web browsers. To manage your personal files or access public files on the ALLNET ALL60700, just enter its IP address into your browser (default IP address is http://192.168.1.100), and you will be taken to the **ALLNET ALL60700 Login** page.



Login Page

To login to the system, enter your user name and password, and select Web Disk or Photo server then click *Login* to log into the system. You will be taken to the **selected** interface.



Using WebDisk

The ALLNET ALL60700 provides a WebDisk function that allows you to access the system over the Internet from any browser.

- In the Login page, type in the User ID and password that were previously set for you in the Accounts menu. See
 Chapter 4:User and Group Authentication > Local User Configuration.
- 2. The WebDisk page appears showing folders made currently available to you via the **Access Control List (ACL)**.
- 3. Click on a folder name to enter the folder.
- 4. The folder's page appears displaying files and folders. Click on a file to download the file.

- 5. Buttons on the folder page allow you to create a new folder, upload files and delete files in the folder.
- 6. To create a new folder within the current folder, press the New folder button. When the screen appears enter a name for the folder. Press OK to create the folder.
- 7. To upload a file from your computer to the current folder, press the New file (upload) button. When the screen appears, press Browse and locate the file to upload. Press **OK** and the file is uploaded to the current folder.
- 8. To delete a file or folder, select the file or folder's check box. Press the Delete selected items button. You can also check the check box as the red circle indicates to select all files and folders in this folder.

To access folders with access control, you must first login with a local user account.

For more information on how to setup user rights to the folders, please check Chapter 4: Storage Management >Share Folder > Folder Access Control List (ACL).

English			2	Web Disk	
Directory Tree 🔹 «	Browsing Directory naswebsite 👻				
	🛧 Home 🍰 Reload 🔍 Search 🔄 💌 💩	曼 合 1 🕹 1	Filter		
usbcopy	Name	Size Type Modified			
🗈 🧰 usbhdd					
	-				
	14 4 Page 1 of 1 > > () ()	Done,			No items to display

Folder Page Button			
Button	Description		
Directory Tree	List all directory trees per login user's privilege.		
Browsing Directory	Browsing selected directory of its folders and files.		
1 Home	Go back to the web disk directory layer.		
🝰 Reload	Re-load the current list.		
Q Search	Search files in the current web disk directory.		
	(Must input the complete file name.)		
(new file/Directory)	Creates a new folder or directory.		

Filter

🛧 Home 🧟 Reload 🔍 Search 🛛 🕱 🌆 🚸 🚸 🧏 🧕 Show Directories

(delete)	Deletes selected files or folders.
(Rename)	Rename a directory or file.
(download)	Download a file to current folder of your computer.
(upload)	Upload file from your computer to current web disk folder.
🚺 (Admin)	Change password and confirm new password.
(logout)	To logout of the web disk interface.
Show Directories Show the files and folders in the directory.	
Filter	Search files in the directory.
	(You can only input some word string.)
Name	Displays the names of folders and files.
Size	Shows the size of folders and files.
Туре	Displays the type of folders and files.
Modified	Shows the time of most recent modification of folders and files.
owner	Owner of the file.

There is also the way by using right click button to bring up contact windows as short cut to operate what you needed.

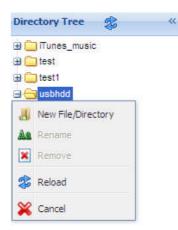


Photo Server

Using the Photo Server, users can view and share photos, and even create their own albums right on the ALLNET ALL60700.

You will see your own Photo Gallery and all public Photo Albums on the network.

To manage any picture files, you must first select the item by clicking the box then enter user name and password to login photo server.

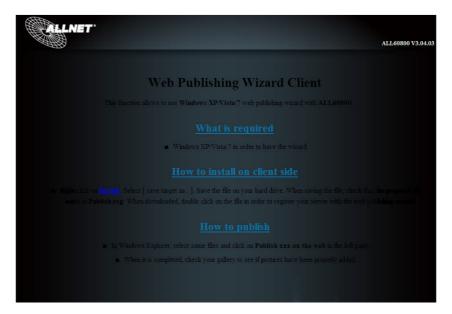




Windows XP Publishing Wizard

There are many ways for a local user to upload pictures into their photo album. Users of Windows XP can upload their pictures using the Windows XP Publishing Wizard.

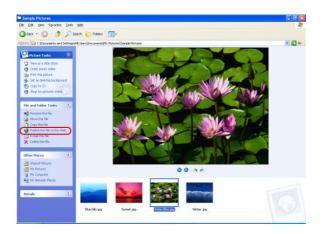
- 1. Click on the **XP Publishing Wizard** icon on top right corner.
- 2. The **XP Web Publishing Wizard Client** screen appears. Click on the link to install the Publishing Wizard.



3. Windows XP will ask whether you want to run or save this file. Click **Save** to save the register file.

Do you	want to run	or save this	file?			
227	Name: X	(PPublish.reg				
9	Type: R	Registration En	tries, 37	7 bytes		
	From: 1	72.16.66.158				
		<u>B</u> un		<u>S</u> ave	Canc	el
~ .	Welle Class Gas	n the Internet c				

4. Once the register file is installed, use the Windows file manager to browse the folder that contains the picture you want to publish. On the left pane, there will be an icon labeled "**Publish this folder to the Web**".



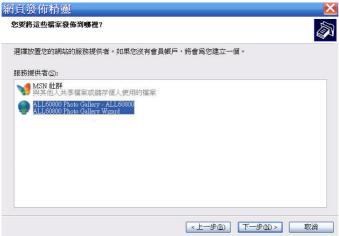
5. Click on this icon and **Web Publishing Wizard** will start.



6. Select the pictures you want to publish to the Photo Web Server by placing a check mark on the top left hand corner of the picture. Click **Next**.

Web Publishing Wiza	rd			2
Change Your File Se You can publish the check box	Her that have check mail	ka. Il you do not want to p	ndhih a lile, clear iti	P
		E	R	*
Ø				
	at .			~
50 files selected of 50			Select Al De	N AR
		(Back	tiet) Ca	ncel

- 7. Your PC will start to connect to the Photo Web Server.
- 8. Select **ALLNET ALL60700 Photo Gallery Wizard** to publish your pictures to ALLNET ALL60700.



9. Login into ALLNET ALL60700 with your local user name and password.

網頁發佈精靈 ALL60800 Photo Gallery Wizard Powered by ALLNET		×
Please input ID and Password ID : Password :	Velcome to ALINET NETWORKS	
	<上一步(B) 下一步(Q) > 取	消

10. Create your album by entering an album name and clicking on the **Create Album** button.

b			On Gallery : Select Album To Upload :	Service On G Please Select
	NET NETWORKS	Welcom	name : eate Album	Album name Create
	• *****		Select Album To Upload :	Please Select

- 11. Select the album you want to upload your pictures to.
- 12. Confirm the target album.

網頁發佈精靈	×
ALL60800 Photo Gallery Wizard Powered by ALLNET	
The selected Album is nature . Are you sure publish photos into the Album?	Velcome to AllNET NETWORKS
	<上一步(B) 下一步(D) > 取消

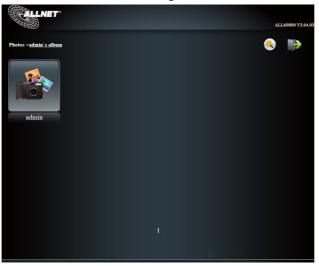
13. Windows will show you that the picture upload is in progress.

Please wait while your files are copied	
File: Winter,ipg File progress: 100% complete	
To stop copying, click Cancel.	

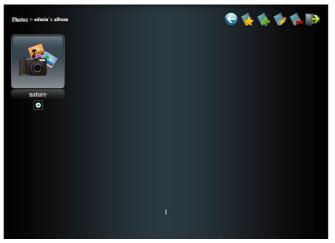
14. When the upload is finished, the Wizard will ask you whether if you want to go to the website. Click *Finish* to go to your Photo Web Server.

Veb Publishing Wizard	Completing the Web Publishing Wizard	×
	Completing the web Publishing wizard	
	You have successfully published your files to this site:	
	N5500 Photo Galler;	
	☑	
	To close this wizard, click Finish.	
	< <u>B</u> ack Finish Cancel	

15. Click on the user's icon to go to that user's album.



16. You will see the user's album list. Click on **Album**.



17. Finished! You will see the pictures just selected in the album.



Managing Albums and Photos

Icon	Function	Description
*	Make Cover	Make selected photo your cover picture.
\bigcirc	Back	Return to the previous screen.
-	Add	Add a new album or photos.
	Modify	Edit the name and description of the selected album or
*		photo. Each name is limited to 20 characters and each
		description is limited to 255 characters.
1	Delete	Delete the selected albums or photos.
	NOTE • Or	ly logged in users will see these icons.
	• To	prevent system errors, TALLNET IP storage sets the following limitations on oto files:
		• Each file upload is limited to a size of 8MB. Files exceeding 8MB will NOT be uploaded and no error message will appear.
		 Only these photo file types will be uploaded: *.jpg, *.gif, *.bmp, *.png, *.pcx, *.psd, *.bmp.
•		 If duplicate file names exist during upload process, system will add a number in front of the original file name (abc →□1abc).

Creating Albums

To create a photo album, follow the steps below:

- 1. Click the *Add* button to create a new album.
- 2. Enter a name for the album, and enter a description if you wish. Then, click on the *Create Album* button.

Password Protecting Albums

If you would like to put a password on a particular album, follow these steps:

- 1. Select the album to be protected, click on the *Edit* button, and the **Album Edit** screen will appear.
- 2. The owner of the album can enter an album password to protect the album, so that only people with the correct password can view the album.

Uploading Pictures to Albums

Uploading pictures to albums using the Web User Interface is easy:

- 1. When the album is created, click the album icon to enter the album. Initially the album is empty.
- 2. Click the *Add* button to upload pictures into the album. The **Upload Photos** screen will appear. Users can select and upload up to 8 pictures at a time.
- 3. Once the picture is uploaded, you can view it in the album. The owner of the album can delete or modify the pictures with the **Delete** or **Modify** buttons on the top right hand corner

EXIF Information

While viewing pictures, you can also have ALLNET ALL60700 display the EXIF information for each photo.



Simply click the **EXIF** button to display EXIF information. To hide this information, click the **EXIF** button again.

Slide Shows

Slide shows are a great way to enjoy pictures stored on your ALLNET ALL60700.

You can click on the **Start Slide Show** icon on the top right hand corner to start the slide show.



To stop the slide show, click on the **Stop Slide Show** icon on the top right hand corner.

Mapping a Client PC to the ALLNET ALL60700

You can map share folders on ALLNET ALL60700 so that you can access them as if they were drives on your computer. You can connect to the shared network folders on ALLNET ALL60700 as follows:

Windows

- 1. Go to the **My Computer** folder in Windows.
- 2. In the menu bar, select Tools and then Map Network Drive...
- 3. The Map Network Drive window appears.
- 4. Assign a drive letter for the share folder.
- Click the *Browse* button to find the folder over your network. Alternatively, you may enter the folder name you wish to connect to or enter its IP address. (i.e. \\192.168.1.100\share)
- 6. Click *Finish*. When the **Connect As...** window appears, enter your user name and password.
- 7. Click **OK**. The share folder appears as the drive you assigned. You can now access this folder as though it were a drive on your computer.

Apple OS X

On an Apple computer, you can connect to shared computers and servers using a network address.

- 1. Choose Go > Connect to Server...
- 2. Enter the network address for the server in the Server Address text box. When connecting using SMB/CIFS protocol, type: smb://192.168.1.100/Folder1 When connecting using AFP protocol, type: afp://192.168.1.100/Folder1 Click Connect.

- 3. When MAC OS X is trying to connect ALLNET ALL60700, it will ask for a User Name and Password which has access to the folder.
- 4. When MAC OS X has connected to ALLNET ALL60700 successfully, an icon representing the folder will appear on the MAC OS X desktop. You can access the folder by double clicking on the icon.

Mapping ALLNET ALL60700 as an iSCSI Drive

With ALLNET ALL60700, you are able to map it as an iSCSI drive. With iSCSI, you can remotely access ALLNET ALL60700 at great speeds, as if it were installed as a local drive in your computer.

To do this, simply follow the steps below:

Windows 2000/XP

- First, download the iSCSI Initiator from the Microsoft website (http://www.microsoft.com). You can find this software by entering iSCSI Initiator into the search box on their homepage.
- 2. Once the download is complete, install the iSCSI Initiator by double-clicking the EXE file. You may be presented with the following security warning. Click *Run* to continue.

		ild3273-x86fre.exe	
	Microsoft Corp	ooration	
Туре:	Application		
From:	U:\John\iSCSI		
		<u>B</u> un	Cancel

3. You will now install the iSCSI Initiator using the Setup Wizard. Click **Next** to continue.

Software Update Installati	on Wizard 🛛 🔀
Ð	Use this wizard to install the following software update: Microsoft iSCSI Initiator Before you install this update, we recommend that you: - Back up your system - Close all open programs You might need to restart your computer after you complete this update. To continue, click Next.
	< Back Next> Cancel

4. Leave the default selections and click **Next**.

ftware Uj	pdate Installation Wizard	D
Microsoft	iSCSI Initiator Installation	
Microsoft	t ISCSI Initiator will be installed	
Installati	on Options	
R	Virtual Port Driver	
v	Initiator Service	
v	Software Initiator	
Г	Microsoft MPI0 Multipathing Support for iSCSI	
	<back next=""> C</back>	Cancel
		Jancel

5. Read the license agreement. To continue with the installation, click *I Agree* and then click *Next*.

cense Ag	reement	
	Please read the following license agreement. To continue with se you must accept the agreement.	stup,
15	END-USER LICENSE AGREEMENT FOR MICROSOFT SOFTWARE	^
	Microsoft iSCSI Initiator 2.0	
	IMPORTANT - PLEASE READ THIS END-USER LICENSE AGREEMENT ('EULA') CAREFULLY. BY INSTALLING, COPYING OR OTHERWISE USING THE SOFTWARE THAT	~
	CIDo Not Agree CIAgree Print	

6. The iSCSI Initiator will now install automatically. Click *Finish* once completed.

Software Update Installat	ion Wizard
Ð	Completing the Microsoft iSCSI Initiator Installation Wizard
	You have successfully completed the iscsi200 Setup Wizard.
	To close this wizard, click Finish.
	< Back Finish Cancel

7. Start the iSCSI Initiator by double-clicking its icon on the desktop. The iSCSI Initiator properties window will appear.



8. Select the *Discovery* tab. Under Target Portals, click *Add*.

General	Discovery	Targets	Persistent Targe	ets Bou	und Volumes/Devi	ice:
Targe	t Portals					
Ad	dress	Port	Adapter		IP Addr	
	Add		Remove		Refresh	
	Servers		Tomere		n <u>o</u> ncan	
Na						
	Add		Remove		Re <u>f</u> resh	
			οκ	Cano		

9. Enter the IP address of ALLNET ALL60700. Click **OK**.

Type the IP address or DNS nan want to add. Click Advanced to session to the portal.		
IP address or DNS name:	<u>P</u> ort:	
xxx,xxx,xxx,xxx	3260	Advanced

10. On the **iSCSI Initiator Properties** window, select the **Targets** tab. With the iSCSI target highlighted, click **Log On**. The **Log On to Target** dialogue will appear.

General	Discovery	Targets	Persistent Targets	Bound Volumes/Devices
target.		o see info		rage devices for that ssions, connections and
Target				Status
1.00	7 .		ID.iscsi0.vg0.test	Inactive
			etails	n Refresh

11. If you have not enabled CHAP, click **OK** to continue.

Log On to Target	
Target name:	
iqn.2007-05.com.thecus:RAID	.iscsi0.vg0.test
Automatically restore this co	onnection when the system boots
Enable multi-path	
Only select this option if iS on your computer.	CSI multi-path software is already installed
Advanced	OK Cancel

If you have enabled CHAP, click **Advanced**. Under Advanced Settings, check the **CHAP login information** checkbox and enter your username and password. Click **OK**.

eneral IPSec	
Connect by usin	9
Local adapter:	Default
Source IP:	Default
Target Portal:	Default
CRC / Checksu	m
🗖 Data digest	Header digest
CHAP logon	information
CHAP helps ens a target and an	information ure data security by providing authentication between mitiator typing to establish a connection. To use it target CHAP secret that was configured on the target
CHAP helps ens a target and an specify the same	rure data security by providing authentication between initiator trying to establish a connection. To use it
CHAP helps ens a target and an specify the same for this initiator.	ure data security by providing authentication between initiator trying to establish a connection. To use it a target CHAP secret that was configured on the target
CHAP helps ens a target and an specify the same for this initiator. <u>U</u> ser name: Target <u>secret</u> :	ure data security by providing authentication between initiator trying to establish a connection. To use it a target CHAP secret that was configured on the target

12. Right click *My Computer* on the desktop and select *Manage*.

🕀 🎿 3½ F	Collapse
AI7E	Explore
🧇 DATA	Open
🗣 FAT3	Search
DVD (Manage
DVD [Map Network Drive
🐔 public 🐔 fae o	Disconnect Network Drive
Contr	Delete
My Netwo	Rename

13. Click on Disk Management and you will see a new hard disk listed.

Computer Management (Local)	Volume	Layout Type File Sys Partition Basic NTPS	item Status Heakhy (System)	Capacity Free S	
Shared Polders Shared P	Catrexp2 (C:)	Partotion Basic INIPS Partition Basic NTPS Partition Basic PAT32	Heakhy Heakhy Heakhy	4.89 GB 1.710 64.75 GB 20.85 4.88 GB 3.38 (GB 32 %
Disk Defragmenter	<				6
By Services and Applications	CPDisk 0 Basic 74.53 GB Online	AITEXP2 (C:) 4.89 GB NIFS Healthy (System)	DATA (D:) 64.75 GB NTFS Healthy	FAT32 (G 4.89 GB FA Healthy	
	Clisk 1 Unknown 69.59 GB Not Initialized	69.59 GB Unallocated			
	CD-ROM 0				

14. Initialize the new hard disk and you will then be able to use the iSCSI target as a local drive.

Windows Vista

Because Windows Vista has the Microsoft iSCSI Initiator pre-installed, you will not have to install this piece of software. Instead, start the iSCSI Initiator and follow steps 8-14 to map the ALLNET ALL60700 as an iSCSI drive.

Chapter 6: Tips and Tricks

USB and eSATA Storage Expansion

The ALLNET ALL60700 supports external USB hard disks through its USB ports. Once a USB hard disk has successfully mounted, the entire volume will be linked automatically to the default USB HDD folder. The ALLNET ALL60700 supports USB external storage devices. All file names on the USB disk volume are case sensitive.

The ALLNET ALL60700 also supports eSATA hard disks with its eSATA port.

Before attaching an eSATA or USB disk drive to ALLNET ALL60700, you have to partition and format it on a desktop computer or a notebook first. The attached device will be located at $\192.168.1.100\usbhdd\sd(x)1$ where 192.168.1.100 means the IP address of ALLNET ALL60700 and sd(x)1 stands for the first partition on the eSATA or USB disk drive.

Adding a Spare Disk

With a RAID 1, RAID 5, RAID 6, or RAID 10 volume, you can add a spare disk after the initial RAID is setup. To add a spare disk, follow the steps below:

- 1. On the **RAID Configuration Screen**, tick the checkbox of the hard disk you wish to designate as a spare disk.
- 2. Click *Add Spare.* The disk will be configured as a spare disk. The system automatically rebuilds the spare disk when one of the disks in the RAID set fails.

Remote Administration

You can set up your ALLNET ALL60700 for remote administration. With remote administration, you can access your ALLNET ALL60700 over the Internet, even if your ALLNET ALL60700 is behind a router. This is especially useful if you are traveling and suddenly need a file from your ALLNET ALL60700.

Setting up remote administration is a three-part process, and will require the following equipment:

- ALLNET ALL60700 device
- Cable / DSL Router with Dynamic DNS support
- Home PC
- Internet Connection

NOTE

Router setup will differ slightly depending on router used. For this example, we will use the Asus WL500g because it has support for Dynamic DNS. Contact your router hardware vendor for setup help.

Part I - Setup a DynDNS Account

- 1. Go to http://www.dyndns.org from your home PC.
- 2. Click on the **Sign Up Now** link.
- 3. Check the Check boxes, select a user name (i.e.: ALL60700), enter your email address (i.e.: xxx@example.com), check *Enable Wildcard*, and create a password (i.e.: xxxx).
- 4. Wait for an email from www.dyndns.org.
- 5. Open the email and click on the link to activate your account

Part II - Enable DDNS on the Router

- 1. Go to the router setup screen and select **IP Config** > **Miscellaneous DDNS Setting** from your Home PC.
- 2. Click on Yes for Enable the DDNS Client?
- 3. Select www.dyndns.org.
- 4. Go to router setup screen, and enter the following information:
 - a. User Name or E-mail Address: xxx@example.com
 - b. Password or DDNS Key: **xxxx**
 - c. Host Name: www.ALL60700.dyndns.org
 - d. Enable wildcard? Select Yes
 - e. Update Manually: Click Update

Part III - Setting up Virtual Servers (HTTPS)

- 1. Navigate to **NAT Setting** > **Virtual Server**.
- 2. For Enable Virtual Server?, select Yes
- 3. Setup the HTTPS Server
 - a. Well-Known Applications: Select User Defined
 - b. Local IP: Enter 192.168.1.100
 - c. **Port Range**: **44**3 (the default HTTPS port setting on the ALLNET ALL60700)
 - d. **Protocol**: select **TCP**
 - e. Click **Add**.
 - f. Click **Apply**.
- 4. Test the HTTPS connection from another computer on the Internet
 - a. From a remote computer, open your browser and enter https://www.ALL60700.dyndns.org
 - b. You should see the login page of ALL60700.

Firewall Software Configuration

If you are using a software firewall (i.e. Norton Internet Security) and are having trouble connecting to ALLNET ALL60700, you can try the following steps:

- 1. Double click the **NIS** icon on system tray, and then configure the **Personal Firewall**.
- 2. On the **Programs** page, find the **SetupWizard.exe** and change its permission to "Permit All". If it's not in the program list, use the **Add** or **Program Scan** buttons to find it.
- 3. On the **Networking** page, manually add ALL60700 IP address (i.e. 192.168.1.100) to the **Trusted** list.

Replacing Damaged Hard Drives

If you are using RAID 1, RAID 5, or RAID 6 you can easily replace a damaged hard drive in the ALLNET ALL60700 while keeping your data secure with the system's automatic data recovery.

Hard Drive Damage

When a hard drive is damaged and data in the RAID volume, the system LCD will display warning message also the system beeps.

Replacing a Hard Drive

To replace a hard disk drive in ALLNET ALL60700:

- 1. Remove the tray with the damaged hard disk (N0503 is using HDD rail).
- 2. Unscrew the damaged hard disk and remove it from the tray.
- 3. Slide a new hard disk into the tray and fasten the screws.
- 4. Insert the hard disk tray back into ALLNET ALL60700 until it snaps into place. You can also lock it with a key if desired.
- 5. The LED blinks green when the HDD is accessed.

RAID Auto-Rebuild

When using RAID 1, 5, 6, or 10 on ALLNET ALL60700, you can use the auto-rebuild function when an error is detected.

- 1. When a hard disk fails the system beeps and/or an email notification is sent to specified receivers.
- 2. Check the LCD to see which disk has failed.
- 3. Follow the steps mentioned above to replace the failed hard disk.
- 4. The system automatically recognizes the new hard disk and starts the auto-rebuild sequence to resume its status before the hard disk crash.

Chapter 7: Troubleshooting

Forgot My Network IP Address

If you forget your network IP address and have no physical access to the system, you can find out the IP address by either looking directly onto ALLNET ALL60700 LCD panel, or by using the setup wizard to retrieve the IP of your ALLNET ALL60700.

- 1. Start the Setup Wizard, and it will automatically detect all ALLNET ALL60700 products on your network.
- 2. You should be able to find the IP address of ALLNET ALL60700 which you have forgotten in the **Device Discovery** screen.

Can't Map a Network Drive in Windows XP

You may have problems mapping a network drive under the following conditions:

- 1. The network folder is currently mapped using a different user name and password. To connect using a different user name and password, first disconnect any existing mappings to this network share.
- 2. The mapped network drive could not be created because the following error has occurred: **Multiple connections to a server or shared resource by the same user, using more than one user name, are not allowed.** Disconnect all previous connections to the server or shared resource and try again.

To check out existing network connections, type net use under the DOS prompt.

Restoring Factory Defaults

From the **System** menu, choose the **Factory Default** item and **the Reset to Factory Default** screen appears. Press **Apply** to reset ALLNET ALL60700factory default settings.



Problems with Time and Date Settings

The administrator is able to select an NTP Server to keep ALLNET ALL60700 time synchronized. However, if ALLNET ALL60700 can not access the Internet, you may encounter a problem when setting the Time and Time Zone. If this happens:

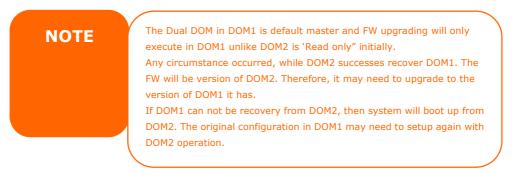
- 1. Login to the Web Administration Interface.
- 2. Navigate to **System Management>***Time*.
- 3. Under NTP Server, select No.
- 4. Set the **Date**, **Time**, and **Time Zone**.
- 5. Click **Apply**.

In addition, if ALLNET ALL60700 is able to access the Internet and you want to keep the NTP Server clock.isc.org by default, please make sure the DNS Server is correctly entered, thereby allowing the NTP Server name to correctly resolve. (See **System** *Network* > *WAN/LAN1* > *DNS Server*)

Dual DOM Supports for Dual Protection

The most advance and useful of ALLNET ALL60700 (depend on models) is Dual DOM implemented. In the normal circumstance, it has no need to have this feature involved. But with irresistible cause like power cut or human error by accident occurred especially during system booting stage, this will become the great feature to prevent system down time.

Practically while it happened, system will try to recovery the DOM 1 from DOM 2 first. If it is unachievable then system can boot from DOM 2. And all of this procedure can be operated by LCM.



Appendix A: RAID Basics

Overview

A Redundant Array of Independent Disks (RAID) is an array of several hard disks that provide data security and high performance. A RAID system accesses several hard disks simultaneously, which improves I/O performance over a single hard disk. Data security is enhanced by a RAID, since data loss due to a hard disk failure is minimized by regenerating redundant data from the other RAID hard disks.

Benefits

RAID improves I/O performance, and increases data security through fault tolerance and redundant data storage.

Improved Performance

RAID provides access to several hard disk drives simultaneously, which greatly increases I/O performance.

Data Security

Hard disk drive failure unfortunately is a common occurrence. A RAID helps prevent against the loss of data due to hard disk failure. A RAID offers additional hard disk drives that can avert data loss from a hard disk drive failure. If a hard drive fails, the RAID volume can regenerate data from the data and parity stored on its other hard disk drives.

RAID Levels

The ALLNET ALL60700 supports standard RAID levels 0, 1, 5, 6, 10, and JBOD. You choose a RAID level when you create a system volume. The factors for selecting a RAID level are:

- Your requirements for performance
- Your need for data security
- Number of hard disk drives in the system, capacity of hard disk drives in the system

The following is a description of each RAID level:

RAID 0

RAID 0 is best suited for applications that need high bandwidth but do not require a high level of data security. The RAID 0 level provides the best performance of all the RAID levels, but it does not provide data redundancy.

RAID 0 uses disk striping and breaking up data into blocks to write across all hard drives in the volume. The system can then use multiple hard drives for faster read and write. The stripe size parameter that was set when the RAID was created determines the size of each block. No parity calculations complicate the write operation.

RAID 1

RAID 1 mirrors all data from one hard disk drive to a second one hard disk drive, thus providing complete data redundancy. However, the cost of data storage capacity is doubled.

This is excellent for complete data security.

RAID 5

RAID 5 offers data security and it is best suited for networks that perform many small I/O transactions at the same time, as well as applications that require data security such as office automation and online customer service. Use it also for applications with high read requests but low write requests.

RAID 5 includes disk striping at the byte level and parity information is written to several hard disk drives. If a hard disk fails the system uses parity stored on each of the other hard disks to recreate all missing information.

RAID 6

RAID 6 is essentially an extension of RAID level 5 which allows for additional fault tolerance by using a second independent distributed parity scheme (dual parity) Data is striped on a block level across a set of drives, just like in RAID 5, and a second set of parity is calculated and written across all the drives; RAID 6 provides for an extremely high data fault tolerance and can sustain two simultaneous drive failures.

This is a perfect solution for mission critical applications.

RAID 10

RAID 10 is implemented as a striped array whose segments are RAID 1 arrays. RAID 10 has the same fault tolerance as RAID level 1.

RAID 10 has the same overhead for fault-tolerance as mirroring alone. High I/O rates are achieved by striping RAID 1 segments.

Under certain circumstances, RAID 10 array can sustain up to 2 simultaneous drive failures

Excellent solution for applications that would have otherwise gone with RAID 1 but need an additional performance boost.

JBOD

Although a concatenation of disks (also called JBOD, or "Just a Bunch of Disks") is not one of the numbered RAID levels, it is a popular method for combining multiple physical disk drives into a single virtual one. As the name implies, disks are merely concatenated together, end to beginning, so they appear to be a single large disk.

As the data on JBOD is not protected, one drive failure could result total data loss.

Stripe Size

The length of the data segments being written across multiple hard disks. Data is written in stripes across the multiple hard disks of a RAID. Since multiple disks are accessed at the same time, disk striping enhances performance. The stripes can vary in size.

Disk Usage

When all disks are of the same size, and used in RAID, ALLNET ALL60700 disk usage percentage is listed below:

RAID Level	Percentage Used
RAID 0	100%
RAID 1	1/n x 100%
RAID 5	(n-1)/n x 100%
RAID 6	(n-2)/n x 100%
RAID 10	50%
JBOD	100%

n : HDD number

Appendix B: Active Directory Basics

Overview

With Windows 2000, Microsoft introduced Active Directory (ADS), which is a large database/information store. Prior to Active Directory the Windows OS could not store additional information in its domain database. Active Directory also solved the problem of locating resources; which previously relied on Network Neighborhood, and was slow. Managing users and groups were among other issues Active Directory solved.

What is Active Directory?

Active Directory was built as a scalable, extensible directory service that was designed to meet corporate needs. A repository for storing user information, accounts, passwords, printers, computers, network information and other data, Microsoft calls Active Directory a "namespace" where names can be resolved.

ADS Benefits

ADS lets ALLNET ALL60700 integrate itself with the existing ADS in an office environment. This means the ALLNET ALL60700 is able to recognize your office users and passwords on the ADS server. Other major benefits ADS support provides include:

1. Easy integration of ALLNET ALL60700 into the existing office IT infrastructure

The ALLNET ALL60700 acts as a member of the ADS. This feature significantly lowers the overhead of the system administrator. For example, corporate security policies and user privileges on an ADS server can be enforced automatically on ALLNET ALL60700.

2. Centralized user/password database

The ALLNET ALL60700 does not maintain its own copy of the user/password database. This avoids data inconsistency between ALLNET ALL60700 and other servers. For example, without ADS support, an administrator might need to remove a specific user privilege on ALLNET ALL60700 and each individual server. With ADS support, the change on an ADS server is known to all of its ADS members.

Appendix C: Licensing Information

Overview

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<u>ALL60700</u>

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