Web Hub

WH-2400M

WH-2400S

Network Management Manual

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CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Reversion

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Chapter 1 Introduction

WEB HUB's Embedded Web Server integrates HTML Forms and Java[™] Applets for dynamic, real-time status update and monitoring and Standard Web Server security makes Web Management a reality now.

With Web Management, the LAN Administrator can virtually manage the system from anywhere in the world, at any time.

Web Management functions of WEB HUB fall into 6 main categories:

- System
 - ♦ Home Page
 - ♦ System Information
- Management Interface
 - ♦ Networking
 - Serial Port
- Control
 - ♦ Hub
 - Port
- Statistics
 - ♦ Hub
 - ♦ Port
- Utility
 - ♦ Reset

Getting Started

WEB HUB's Web Management Program is easily started from your Web Browser by simply entering the IP address (provided by the LAN administrator) in the Browser's Location Panel and pressing ENTER. WEB HUB's Logon Screen will be loaded and the correct User Name and Password must entered to continue.

💥 WELCOME TO PLANET - Netscape	_ 8 ×
<u>File E</u> dit <u>V</u> iew <u>G</u> o <u>W</u> indow <u>H</u> elp	
Beck Forward Renaed Home Search Guide Print Security Stop IP Address	N
🛛 🎸 Bookmarks 🔬 Go to: 203.70.249.223/	
🛛 🖾 Internet 🖆 Lookup 🖆 New&Cool	
Networking & Communication	4
Enter username for CemHTTP at 203.70.249.223: User Name: PLANET Password: ****** OK Cancel E PAGE	
Document Done	

Figure 1.1 IP Address

Chapter 2 System

Home Page

WEB HUBs home page looks similar to Figure 2.1.

The top window displays the Device Panel, the left window displays the Menu, and the right window displays the Contents.

Menu items can be accessed with a mouse click. A dynamic visual representation of the master hub as well as all linked slave hubs can be activated to enhance monitoring.

Figure 2.1 illustrates the Home Page as it first appears after entering the correct User Name and Password. Initially the Device Panel Window is inactive.



Figure 2.1 Home Page

Dynamic Device Panel

The Device Panel becomes a dynamic, real-time status and monitoring device once clicked with the mouse and loaded.

To load the Dynamic Device Panel click anywhere in Device Panel Window. It takes a moment to display a front view of WEB HUB that reflects the actual device's current state including links.

The Dynamic Device Panel's LED's continuously update, indicating traffic flow and utilization, its ports show all links allowing real time monitoring capability.



The hubs ID is also clearly visible as indicated by the number 1 in the ID LED.

Figure 1.2 Dynamic Device Panel

Hub ID

When the Dynamic Device Panel is loaded, the Hub ID is identified in the ID LED. Since this is the Master Hub it assumes the ID number "1".

		(
Link	0000000000000000	Sheep 1
Rx Disable	00000000000	WWW U
 Disable Partition 	13 14 15 16 17 18 19 20 21 22 23 24 C Collision Ratio % Utilization % C	Overant_p
	00000 000000	Pack Size

Figure 2.2 Hub ID

Link Symbol

A symbol appears in the Dynamic Device Panel, indicating the Master Hub's link port. Figure 2.3 illustrates this link at port 24.



Figure 2.3 Link Symbol

LEDs

The Master, SNMP and Web LEDs glow green in color indicating this is the Master Hub and Web Management Program is monitoring the system.

	1 2 3 4 5 6	7 8 9 10 1112A	UI 🗖 Masta
 Link 	000000	000000	O 🗖 SNMP
🔮 Rix	000000	000000	www.
😑 Disable	131415161718 Collision Ratio %	192021222324 Utilization %	CS/Align Err
Partition	00000	000000	Runts

Figure 2.4 LED of Master, SNMP and Web

The LED at port 24 will blinking green in color, indicating traffic flow through the linked port and the Utilization LEDs, glow green indicating the percentage of utilization.

	1 2 3 4 5 6	7 8 9 10 1112AU	Master
Link	000000	0000000	SNMP
🔵 Ra	000000	00000	- w////
😑 Disable	131415161718	1 2021222324	OutBand I D
			Runts
Paretes	1 3 5 10 20+	1 3 5 10 20+#	Late Collision

Figure 2.5 Port and Utilization LED

Other Links

When managed slave hubs are linked, a symbol appears on the port or ports in the Device Panel showing the link(s). Figure 2.6 illustrates that Port 1 is linked.

	Neb Managed Ethernet	Hub	PLANET
	5x—6x M-Link 7x—8x	9x 10x 11x	12x MDI-II
13x 14x 15x 16x	17x 18x 19x 20x 1	21x 22x 23x	24x

Figure 2.6 Other Links

Identifying Slave Panel

Each Slave Device has its own Device Panel that can be activated and visible at the same time the Master Dynamic Device Panel is visible.

Positioning the mouse pointer over a port with the blue & white colored symbol changes the mouse pointer to an Arrow. Clicking the mouse when it is an Arrow, actives the slave device panel.



Figure 2.7 Identifying a Slave on the Device Panel

Activating Slave Panels

Clicking the left mouse button while the pointer is an up arrow, actives the Slave Device Panel. The slave panel pops up in an independent window.



Figure 2.8 Activating Slave Panels

Active Slave Device Panel

The Slave Device Panel appears as an independent window or Java Applet Window. This window can be repositioned anywhere on the desktop. The Slave Device Panel has all the functions of the Master Device Panel.

Note: The Slave Device Panel will not stay on top, once there is a mouse clicking anywhere on the browser, it is sent to the back. However it stays active and can be brought to the front again, by clicking the symbol at its port, in the Master Dynamic Device Panel.

The slave device panel can be repositioned anywhere on the desktop by dragging it with the mouse.



Figure 2.9 Active Slave Device Panel

Ports

The Slave Device Panel shows that there is an M-Link to the Master Hub by the symbol in the MDI-II port.

The illustration in Figure 2.10 indicates additional links on port 18.

The LEDs for ports 18, blink green in color indicating traffic flow.



Figure 2.10 Slave Device Ports

Note: Passing the mouse pointer over the symbols on the ports of a slave device panel does not change the mouse pointer since these do not represent manageable slave hubs.

Arranging Device Panels

It is easy to constantly monitor all Device Panels, master and slaves, simultaneously, however it is necessary to resize the browser so that it does not cover the Slave Device Panels.



Figure 2.11 Arranging Slave Device Panels

System Information

The System Information screen displays the System Up-Time, Name, Contact and Location. The System Name, Contact and Location can be edited and updated by users with Read/Write privileges.

Clicking the APPLY button updates the system and re-loads the panel with the revised information.

	Link 1 2 3 4 5 6 7 9 9 10111243 mem Link Link <thlink< th=""> <thlink< th=""> Link <thlin< th=""><th>•</th></thlin<></thlink<></thlink<>	•
System <u>Home Page</u> <u>System Info</u> Management. <u>Networking</u>	System Information PLANET WebHub-Ethernet Manageable Hub	7
Serial Port Control Hub Port Statistics	System Up Time D O day 3 hr 43 min 27 sec System PLANET WebHub WH-2400M Name System	
© <u>Port</u> Utility © <u>Restart</u> <u>Help</u>	Contact System Location Update Cancel Cancel	

Figure 2.12 System Information

Chapter 3 Management Interface

Networking

The IP Configuration menu displays the IP Address, Subnet Mask and Default Gateway. These configurations must be set correctly in order for the Web Browser to make a connection with Web Hub's internal Web Environment.



Figure 3.1 Networking

After editing IP Address, Subnet Mask or Default Gateway, click the APPLY button. The new settings will not take effect until the system reboots or until it is restarted via the Restart Menu.

Serial Port Information

The Serial Port Information menu displays the settings that have been made through the Console Program and that are needed for WEB HUB to communicate with a terminal program.



Figure 3.2 Serial Port Information

Chapter 4 Control

The Hub Control/Status Menu displays software and hardware version numbers, which are useful for identification, in-the-event-of software upgrades being available. This Menu is also used to configure hubs and ports.

Hub

These are address/versions are assigned by the internal Software.

- MAC Address
- Boot ROM Version
- H/W Version (Hardware Version)
- System Software Version
- Web Pages Version

The Hub ID of linked hubs is automatically assigned and is entered in the Hub ID column.

Each hub can be given a unique name to clarify its identity.

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🔄 🛄 Internet (🗂 Lookup 📑 New&Cool						
	<		UCB H	Device LRSC Ethe	WH-24 Pal	nel	<u>></u>
System System Home Pac System In	×.	Hı	ıb Conti	ol / Stat	us	*	•
Managemer.	Master Hub Information	:					
 <u>Networkin</u> <u>Serial Por</u> 	MAC Address	00-E0-	-95-01-00-ED	System Softwar Version	^{tre} V 2.11		
Control	Boot ROM Version		V 2.11	Web Pages Ver	sion	V 2.12	
•Port	Hub ID		Hub	Name		H/W Version	
Statistics	1					V 1	
Hub	2					V 1	
● <u>Port</u> Utility ● <u>Restart</u>	Hub ID: None	¥)	ź		X	
<u>Help</u>	Hub Name:						
	Apply	Cancel			(%)	X.	-
	Document: Done						1

A Hub Name can consist of up to 40 Alpha-Numeric Characters.



Selecting a Hub

A hub is selected in the Hub Configuration menu by clicking on the Hub ID panel arrow. Choose the desired hub in the pop-up menu (only linked hubs can be selected). Once a linked hub is selected from the pop-up menu, the Hubs ID number will appear in the Hub ID panel.

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🔲 🖾 Internet 📑 Lookup	📺 New&Cool					
e pla			VICE	WH-240 Pan Manageab	ICM/S	•
System <u>Home Page</u> <u>System Information</u> Management Interface	Hu	ıb Contı	rol / Sta	tus	×	
Notworking	Master None					
Serial Port Control	MAC A ₂)-95-01-00-ED	System Softwa Version	are	V 2.11	
P <u>Hub</u>	Boot R ⁶ 4	V 2.11	Web Pages V	ersion	V 2.12	
Statistics	5	Hub I	Name		H/W Version	1
©Hub	0				V 1	
Port	, , , , , , , , , , , , , , , , , , ,	l .			V 1	
	9					
Help	Hub ID: None 💌					
	Hub Name:	-]		-
Documen	nt: Done					

Figure 4.2 illustrates selecting the master hub, "1(Master Hub)".

Figure 4.2 Select Hub

Naming a Hub

With the selected hub visible in the Hub ID panel, type a descriptive name in the Hub Name panel. In Figure 4.3 the name "ADMIN" has been entered. To update and write the new information to WEB HUB's memory, click the APPLY button.

The hubs name will remain in memory and if the Hubs ID is changed by connecting to a different port, the name remains unchanged even the ID number changes.

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€ Link 1 ÷ Rc 00 0 Dinable 13 Friffica 5 9 Friffica 5 5	2 4 5 6 7 8 9 10111244 Minute 3 4 5 6 7 8 9 10111244 Minute 5 10 5 10	I D Err sion	1x-2x-3x-4x-5x 1x-2x-5x-4x-5x 1x-2x-5x-4x-5x 1x-2x-5x-4x-5x 1x-2x-5x-4x-5x 1x-2x-5x-5x-5x 1x-2x-5x-5x-5x 1x-2x-5x-5x-5x 1x-2x-5x-5x-5x-5x 1x-2x-5x-5x-5x-5x-5x 1x-2x-5x-5x-5x-5x-5x-5x-5x-5x-5x-5x-5x-5x-5x	b Managed Ethemet H x—6x M-Link 7x—8x 9 x 18x 19x 20x 2	NUD x 10x 11x 12x x 10x 11x 12x 11x 12x x 10x 11x 12x 11x 12x x 10x 11x 12x 11x 11	ZADOM MDHI	~
System <u>Home Page</u> <u>System Information</u> Management Interface	×	Hu	ıb Contı	ol / Sta	tus	×.	-
Nanagement Interjace	Master Hub Informati	on :					
©Serial Port Control	MAC Address	00-E0	-95-01-00-ED	System Softwa Version	re	V 2.11	
• <u>Hub</u>	Boot ROM Version		V 2.11	Web Pages Ve	ersion	V 2.12	
Statistics	Hub ID		Hub I	Name	H	/W Version	7
● <u>Hub</u>	1					V 1	
© Port	2					V1	
• <u>Restart</u> <u>Help</u>	Hub ID: 1 (Master Hu	b) 💌		X			
	Apply	Cancel), (^c	\geq	_		.

Figure 4.3 Naming a Hub

Apply

After entering a name and clicking the APPLY button the screen will re-load with the name just entered below the name title adjacent to the Hub ID number. Name the next Hub by selecting its ID number, entering a name and clicking the APPLY button.

Figure 4.4 illustrates that Hub 1 has been named "ADMIN" and Hub 2 is selected is about to be named "ACCOUNTING DEPT.".



Figure 4.4 APPLY

Note: A hub must be linked before it can be named. Attempting to name a Link Down hub will result in a non-fatal error. Click a menu item to continue.

Port

The Port Configuration Menu displays the Port Name, Type, Administration, Operation State, Link Status and Auto Partition settings.

Each port of every linked hub can be configured by Name and Administration Options. Displayed are the Port Number, Type, Operation Status, Link Status and Partition Status.

In Figure 4.5, the Hub ID is [1] and port 2 shows a Link Up under the Operation State column. Port 2 can be named at the bottom of the window, use the scroll bars to view the entire panel.



Figure 4.5 Port Configuration

Port Number

Once the Hub is selected, the ports can be named and the administration level selected. Ports can be named before or after they are linked. Select the desired port from the Port Number pop-up.



Figure 4.6 Port Number

Naming a Port

With the port number selected, enter a name in the Name panel (max 8 chars) and click the APPLY button. After clicking the APPLY button the name of the Port will be entered under the Port Name column, it may be necessary to scroll the window to view the named port. Additional ports can be named in the same manner.

Link 1	2 3 4 5 6 7 0 0 0 0 0 4 15 16 17 18 19 1sien Rate % 0 0 0 0 0 1 5 10 20+	8 9 10 1112AU 000000 90021222324 Utilication %	Maste Skille WWW Doutland Doutland FCSAlgaEr Runts Late Collision	Web Manageo 1x-2x-3x-4x-5x-6x M-Link 1x 1x 1x </th <th>1 Ethernet Hub 7x—8x 9x 10x 10x 10x 20x 21x 22x</th> <th>23x 24x</th> <th></th> <th></th>	1 Ethernet Hub 7x—8x 9x 10x 10x 10x 20x 21x 22x	23x 24x		
System	22		10BASE-T	ENABLE	YES	Link Down	NotPart	-
System Information	23	Jack	10BASE-T	ENABLE	YES	Link Down	NotPart	
Management Interface	24	1.3	10BASE-T	ENABLE	YES	Link Up	NotPart	1
Sorial Port	25	$ $ \vee	AUI	ENABLE	YES		NotPart	1
Control	26	\sim	Management	ENABLE	YES	Link Up	NotPart	
•Hub •Port Statistics •Hub •Port Utility •Restart Help	flub II Port II Admini): 1 (Ma): 2 istration S	ster Hub) - Port Name: tate: None Appl:		>	Cancel	ي خ	=

Figure 4.7 Naming a Port

A port can be named even if it is not yet linked, its link status will show Link Down.

Scroll to View Named Port

The port name is entered under the Port Name column and next to its ID number.

Link 12 R R 2000 Distante Cell Partition	2 3 4 5 6 7 8 9 1 2 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 3 10 10 10 10 10 20 212 10 10 10 10 10 10 10 10 10 10 10 10 10 1	0 111 2ALI = Bestre 0 0 0 0 5 SHAP 2 334 0 WWW 0 0 0 0 5 SHAP 0 0 0 1 5 SHAP 0 0 0 0 0 1 5 SHAP 0 0 0 0 0 1 5 SHAP 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	VCD Hun 1x=2x=3x=4x=5x=6x H.Lini 1x=2x=3x=4x=5x=6x H.Lini 1x=2x=3x=4x=5x=5x=5x=0x 1x=15x=15x=17x=18x	d Ethemet Hub 7x8x 9x 10x 1 19x 20x 21x 22x 2	PLANET WH-2400M 1x 12x MDI-II 3x 24x	
System • <u>Home Page</u> • <u>System Information</u> Management Interface	1	Po	rt Control /	Status		×,
© <u>Networking</u> © <u>Serial Port</u>	Port H	ame Interface Type	e Administration State	Operador State	Link Status	Auto Partition
<u>Hub</u>	128	10BASE-T	ENABLE	YES	Link Down	NotPart
Port	2 EX	DEPT 10BASE-T	ENABLE	YES	Link Up	NotPart
Hub	3	10BASE-T	ENABLE	YES	Link Down	NotPart
Ttility	4	10BASE-T	ENABLE	YES	Link Down	NotPart
Restart Help	5	10BASE-T	ENABLE	YES	Link Down	NotPart
~ .					Link	

Figure 4.8 View Named Port

Administration

The default Administration is Enable. Setting the status to None will not change the current administration state. When setting the Administration Status of a port, select its ID number from the Port ID pop-up, then type the port name in the Port Name panel and make the appropriate Administration Status setting then click the APPLY button.

If the name of the port is not typed into the Port Name panel (assuming the port has been named), the port name remains the original setting after clicking the APPLY button.



Figure 4.9 Administration

Disabled Port

The state of a disabled port will entered as "DISABLE" under the Administration State column. The Operation State will be "NO" for a disabled port.

The LED in the Active Panel for the disabled port will glow amber in color also indicating the port is disabled.



Figure 4.10 Disabled Port

Statistics

Hub Statistics

From the Hub Statistics menu, the Total Frames, Total Octets and Total Errors statistics for each linked hub can be viewed.

The statistics are not displayed dynamically, press the UPDATE to view up, dated result of the statistics.

When more hubs are linked, the statistics panel expands to include all linked hubs. The maximum being 8 slave hubs.



The Figure 3.3 shows hubs 1 and 3 are linked and the statistics for each hub.

Figure 5.1 Hub Statistics

Port Statistics

Ports statistics can be read for individual ports through this menu. The statistics for Port 1 of Hub 1, appear as the default when this menu is selected.

The port statistics for other ports can be read by selecting a port number from the Port Number pop-up and clicking the Update button.

Hub ID: 1	Hub Name:[ADMIN]	Port: 1	Port Name: []
Item	Value	Item	Value
Readable Frames	0	Runts	
Readable Octets	0	Collisions	
FCS Errors		Late Events	
Alignment Errors		Data Rate Mismatches	0
frames Too Long) Ö	Auto Partitions	0
öhort Events	0	Total Errors	0
.SA Changes: 0			
ast Source Address: (0-00-00-00-00		
<u> </u>		1	

Figure 5.2 Port Statistics

Select Hub

Linked hubs are select by clicking the down arrow to right of Hub ID located at the bottom of the panel. If there is no hub linked for the Hub ID selected and the Update button is clicked, a non-fatal error message is loaded.

×	Port S	tatistics	×	
Hub ID: 1	Hub Name:[ADMIN]	Port: 1	Port Name: []	
Item	Value	Item	Value	
Readable Frames		Runts		
Readable Octets	<u> </u>	Collisions	V 0	
FCS Err 1 (Master Hu	1b) 0	Late Events	0	
Alignme 2	0	Data Rate Mismatches	0	
Frames 4	0	Auto Partitions	0	
Short Ev	0	Total Errors	0 /	
LSA Ch 7		\sim		
Last Sou	00-00-00-00	10		
9 Hub ID: 1 (Master Hub) V Port Number: 1 V				
 Absolute Value 				
Update	\bigcirc		<u> </u>	

Figure 5.3 Select Hub

Select Port

To select a specific port of a linked hub, click the arrow to the right of Port Number, located at the bottom of the Port Statistics Panel. Click the Update button.



Figure 5.4 Port Number

Port ID/Port Name

After clicking the Update button the Port Statistics, the Hub ID Number, Hub Name (if configured), Port Number and Port Name (if configured) are clearly visible on the header.

In Figure 5.5 the Hub ID is "3", the Hub Name is "Accounting DEPT.", the Port Number is "23" and no Port Name.

Port Statistics			
Hub ID: 3	Hub Name:[Accounting Dept.]	Port: 23	Port Name: []
Item	Value	Item	Value
Readable Frames	0, \	Runts	
Readable Octets		Collisions	
FCS Errors	0	Late Events	0
Alignment Errors	0	Data Rate Mismatches	0
Frames Too Long	0	Auto Partitions	0 ,
Short Events	0	Total Errors	0
LSA Changes: 0			
Last Source Address	: 00-00-00-00-00-00	2	~~~
Hub ID: 1 (Master H © Absolute Value Update	ub) 🔽 Port Number	. 1 .	

Figure 5.5 Port ID & Name

Error 404

When attempting read the port statistics of a hub that is not linked, the following Error is loaded. Select Port Statistics from the Menu again and select a linked hub.



Figure 5.6 Error 404

Chapter 6 **Utility**

Restart Agent

The Restart Agent menu must be used after modifying Network configuration settings, before the new settings take effect.



Figure 6.1 System Restart

Restarting the Agent will break the Web Browser's connection to WEB HUB. To reconnect to Web Hub's Web Software, enter the Hubs IP address your Web Browser Location panel and press Enter.

Figure 6.2 illustrates the error message that the connection has been set by peer.



Figure 6.2 Network Error

IE3.0 and IE 4.0 Setup to Enable Java Communication

Condition

According to the practice of using IE 3.0 (English version) or IE 4.0 in Windowds95, if you directly give the IP address in the text field of URL to download Java class, then

- The class loader of IE 3.0 may not resolve the IP and the downloading of class will be terminated,
- The download speed of Java class in IE 4.0 will very very slow,
- UDP communication with server in IE 4.0 will hang the system for a while

Recommendation

The following two methods can be applied to solve the problem described above:

• First, construct one host entry in the host table of your local machine:

Host table file is in WINDOWS\hosts

For example, if the IP of the device is 210.68.0.99 then you can edit the file as follows:

127.0.0.1	localhost
210.68.0.99	device99

Then, type **device99** in the URL text field of IE 3.0 or IE 4.0 to get HTML document and download Java class.

• Second, create the host entry in the host table of one Domain Name Server and setup the domain name server of your local machine.

The first method is the most recommended.

EMWH24MGT

