

Serial Manager

Antaira Industrial Serial Device Server Utility Software



User Manual

Version 1.0



www.antaira.com

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Industrial Serial Connectivity

Industrial Serial Device Servers Utility Software

User Manual

Version 1.0 (November 2014)

This manual supports the following Serial Device Server Product Lines:

- STE-5xxx Series
- STE-6xxxx Series
- STE-7xxxx Series
- STW-6xxx Series

This document is the current official release manual. Please check our website (<u>www.antaira.com</u>) for any updated manual or contact us by e-mail (<u>support@antaira.com</u>).

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1 Preface

Purpose of the Manual

This manual supports users during the installation and configuration of Antaira Technologies' industrial serial device server utility software - serial manager. It explains some technical options, advanced network management knowledge, instructions, examples, guidelines and general theories to assist users when managing the device server and its corresponding software.

**Note: A background in general theory is a must when reading.

Who Should Use This User Manual

This manual is to be used by qualified network personnel or support technicians who are familiar with network operations. System programmers or network planners might find this manual of value as well. This manual provides helpful and handy information for first-time users. For any related problems, please contact Antaira Technologies' local channels for assistance, or directly send your inquiries to Antaira Technologies at support@antaira.com or call (844) 268-2472.

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2 Introduction

Serial Manager is utility software that is used as a special tool to help with Antaira Technologies' industrial serial device server management and configuration. It is used for daily management within a variety of Antaira Technologies' serial device servers' settings, such as:

- Address search
- Device positioning (physical positioning)
- Parameter configuration
- Firmware download

System Requirements

Windows 8/7/2008/Vista/2003/XP/2000/NT

****Note:** All the figures herein are intended for illustration purposes only. This utility software works only on Antaira Technologies' industrial serial device server series.

3 Installing Serial Manager

Antaira Technologies' serial manager utility software can be installed from the product CD that comes with each serial device server's package, or it can be downloaded from Antaira Technologies' website <u>www.antaira.com</u> under each individual item page. Once the software has been downloaded and detected on the device, please find the setup file names "Setup_SerialMgr_AN_483VCOM_v494" under the folder names "CONFIG", and double clicking it to install the **Serial Manager** program, as shown in below *Figure 3.1*.

I → STW-611-CD → STW_611C → CONFIG							
Name	Date modified	Туре	Size				
🔊 GW21LE.DLL	1/22/2009 2:41 PM	Application extens	124 KB				
MONITOR	11/2/2014 11:27 PM	Application	260 KB				
SEG.CFG	1/22/2009 2:41 PM	CFG File	1 KB				
Setup_SerialMgr_AN_v483_VCOM_v494	11/12/2014 8:58 PM	Application	13,257 KB				

Figure 3.1

For Windows 7/8 users, it is strongly recommended to allow the program to run in compatibility mode. To set this up, right click over the "Setup_SerialMgr_AN_483VCOM_v494" file \rightarrow Properties \rightarrow click on the 'Compatibility' tab, choose the OS version, and click on the "Run this program in compatibility mode for" box and also click on the "Run this program as an administrator" box, and then just click OK and proceed to install the program.



Installation Steps

 Once you have clicked the 'Apply' and 'OK' buttons, double click the setup file to install the serial manager program. A pop-up window will then appear as follow in *Figure 3.3*.

嵺	SerialManager Setup: Installation Folder 🛛 🗕 🛛 🗙
1 <mark>6</mark>	Setup will install SerialManager in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
De	tination Folder Program Files (x86)\Management Utility\SerialManager B <u>r</u> owse
Space	required: 12.0MB
Space	available: 30.6GB
	ancel Nullsoft Install System v3,0a2 < Back Install

Figure 3.3

- After you have clicked the install button, a Serial/IP Version 4.9.4 Setup window will popup.
 Follow the instructions to complete the installation.
- The serial manager program contains the Virtual COM software to use with Antaira Technologies' industrial serial device servers. For more detailed information on the Virtual COM software, please refer to the device's user manual.

4 Interface

$\mathbf{\overline{e}}$			Seria	I Manager V4.9.4		- • ×
Search	<u>Configuration</u>	n S <u>e</u> curity <u>A</u> dvanced Vir	tual COM About			
R		e 📲 🕸 🛛	5 233 6	1		
No.	Caution	Model	IP Address	MAC Address	Host Name	Kernel A
1		STE-501C	10.0.21.99	00:60:E9:00:91:53		V1.52
2		STE-502C	10.0.2.159	00:60:E9:07:2C:93		V4.12
3		STE-6104C-T	192.168.10	00:60:E9:00:2C:2E		V3.02
4		STW-611C	10.0.50.100	00:60:E9:0F:2C:74		V3.11
5		STE-516C	172.16.1.25	00:60:E9:A1:10:0B		V2.11
•						
<						>
Ready, To	tal 0 devices					

The operating interface of the **serial manager** is as follows in *Figure 4.1*.

Figure 4.1

Please refer to the table below for a description of the 'Problems' and 'Notes' under the "Caution Field".

Caution Field	Description
Problems	
!	IP conflict. There are two devices with the same IP address in the network.
?	MAC conflict. There are two devices with the same MAC address in the network.
Notes	
@	The device is using DHCP.
<	The device is being located.
+	The device has been logged in.

Solutions for the problems encountered above will depend on the nature of each one. Before attempting the solutions listed below, first proceed to "**Rescan**" the network by clicking the **Rescan icon**. If it fails, the solution for each problem is respectively listed within the table below.

Issue	Solution
!	IP conflict- user should reconfigure the device to not have a conflicting IP.
2	MAC conflict- MAC addresses should be unique within the world, so the user should contact
f	Antaira Technologies at (844)268-2472 for immediate assistance.

5 Functions

5.1 Device Search

This function is applied when searching all devices in the network. There are three methods used to search within devices, they are as follows:

- Broadcast Search
- Search by IP Addresses
- Search by MAC Addresses

To select the search methods, users should click the "**Search**" option on the main menu which is shown below in *Error! Reference source not found*.



Figure 5.1

5.1.1 Broadcast Search



The **Broadcast Search** function is used to send a broadcast packet to request all the devices present within the network (*Figure 5.2*). If the broadcast is not allowed in the network (a switch/router is not forwarding the packet), consider using another search feature - "Search by IP Address".

Figure 5.2

5.1.2 Search by IP Address

The **Search by IP Address** function only sends unicast packets to the network and requests IP address responses. Only the device containing the specified IP address will receive a response. Users can also enter a range of IP addresses; in this case, any device within the range of the IP addresses will report their presence in the network. In order to prevent network traffic flooding, please be conservative when specifying the IP addresses range (*Figure 5.3*).

Search Devices by IP Addresses	×
Select an IP address or a range of IP	addresses to search —
10.0.50.100~10.0.50.200	New
	Delete
No. of Unicast-packets/second:	10
Note : To specify a range of IP addre as a delimiter, ex. 10.0.50.1~10.0.50	esses, please use 1~1 .100.
ок	Cancel

Figure 5.3

5.1.3 Search by MAC Address

The **Search by MAC Address** function is a similar to the 'Broadcast Search' feature, but this search is filtered by specifying the MAC Address. Only the device containing the specified MAC address will receive a response (*Figure 5.4*).

Search De	vices by MAC Addresses	×
Select a	MAC address to search	
	New	
	Delete	
		-
Searc	h devices in the range of MAC address	
-MAC ad	dress range	
From:	00 : 60 : E9 : 00 : 00 : 00	
To:	00 : 60 : E9 : FF : FF : FF	
	<u>O</u> K <u>C</u> ancel	1

Figure 5.4

5.1.4 Add a Device

Users can manually add a device to the **Serial Manager's** list by just click "Add a Device" under the search menu, if a specific device's network information is known. After the device is added, the user would be able to upgrade, configure, and manage its overall settings (*Figure 5.5*).

	\mathbf{O}		Serial Manager V4.9.4		- 🗆 🗙
	Search Configuration Security A	Advanced Virtual COM About			
Broadcast Search	Ctrl+B) () () () () () () () () () () () () ()			
Search by IP Address	Ctrl+I			[
Search by MAC Address	Ctrl+M Caution Model	IP Address	MAC Address	Host Name	Kernei A
Add a Device	Ctrl+A STE-501 STE-502	1C 10.0.21.99 2C 10.0.2.159	00:60:E9:00:91:53 00:60:E9:07:2C:93		V1.52 V4.12
Exit	STE-610	04C-T	Add a Device	x	V3.02
	4 STW-61	10	Add a Device	_	V3.11
	5 STE-516	C IP address:			V2.11
	·	Subnet mask:			
		Orthogram	,		
		Gateway:			
		Model name:		_	
			OK Can	cel	
	<				>

5.1.5 Exit

Users can click on the "Exit" row within the search menu to end the program.

5.1.6 Rescan

This option allows the serial manager to search for devices within the vicinity. The rescan option can be accessed by clicking on the first icon within the toolbar (*Figure 5.6*).

Ø		Seria	al Manager V4.9.4		- 🗆 🗙
Starch Config	Iuratior Security Advanced Virtu	al COM About	2		
No. Rescan ut	ion Model	IP Address	MAC Address	Host Name	Kernel A
23	STE-501C STE-502C STE-6104C-T	10.0.21.99 10.0.2.159 192.168.10	00:60:E9:00:91:53 00:60:E9:07:2C:93 00:60:E9:00:2C:2E		V1.52 V4.12 V3.02
4	STW-611C	10.0.50.100	00:60:E9:0F:2C:74		V3.11
5	STE-516C	172.16.1.25	00:60:E9:A1:10:0B		V2.11
<					,,
Ready, Total 0 dev	ces				1

Figure 5.6

By clicking 'Rescan', users will be able to scan the network according to the current selected search method (please take a look at the functions section).

5.1.7 Configuration

A number of options are available:

- Network
- SNMP
- COM Port
- Locate
- Reboot
- Import Settings
- Export Settings
- Configure by Browser
- Configure by Telnet
- Options

Users can setup the device's parameters and are able to import/export that data. Users can set this up by choosing 'Options' under the 'Configuration' menu tab. A specific device is required to be highlighted before proceeding with any configuration option (*Figure 5.7*).

SNMP Ctrl+S			2			
COM Port Ctrl+P	Model	IP Address	MAC Address	Host Name	Kernel	
ocata	STE-501C	10.0.21.99	00:60:E9:00:91:53		V1.52	
John et	STE-502C	10.0.2.159	00:60:E9:07:2C:93		V4.12	
NEDOOL	STE-6104C-T	192.168.10	00:60:E9:00:2C:2E		V3.02	
mport Setting	STW-611C	10.0.50.100	00:60:E9:0F:2C:74		V3.11	
Export Setting	STE-516C	172 16 1 25	00:60:E9:A1:10:0B		V2.11	
Config by browser						
Config by Telnet						
Ontions						

Figure 5.7

5.1.8 Network

By choosing the 'Network' option under the 'Configuration' menu tab, users can modify the following parameters:

- IP Address
- Subnet mask
- Gateway
- Host Name

Users also have the option to obtain an IP address automatically by clicking on the "DHCP" check box for a specific highlighted device (*Figure 5.8*).



Figure 5.8

Users can also click on the Network icon on the toolbar (Figure 5.9).

	<u>S</u> earch	<u>C</u> onfiguratio	n S <u>e</u> curity	<u>A</u> dvanced	V <u>i</u> rtual CON	M A <u>b</u> out		
			e	9	n 🕄	6		
	No.	C Network	Model			IP Addres	55	M.
Er	ror! Ref	erence sour	ce not fou	n d. Fig	gure 5.9			
						SNMP Sett	ing	×
5.	1.9 SN	IMP				Please set for this de	t the appropriate SNI vice (STW-611C, 10	MP settings .0.50.100)
						Name:	0060E90B4EB0	
						Location:	location	
						Contact:	contact	
						E Apply 1	for all selected devic	es
						C	OK Car	icel

Users can fill in the name, location, and contact for the 'SNMP Setting' (Figure 5.10).

- 🗆 X Serial Manager V4.9.4 0 Search Configuration Security Advanced Virtual COM About No. Caution Model MAC Address IP Address Host Name Kernel A 00-60-50-00-04-62 Login STE-501C 10.0.21.99 V1.52 x STE-502C 10.0.2.159 V4.12 Enter a user name and password to login to this STE-6104C-T 192.168.10 V3.02 This function is only available for the standard Serial Serve STE-516C 172 16 1 25 V2.11 STW-611C IP: 10.0.50.100 Device: User Name: Password: П Login Cancel Ready, Total 0 devices

Figure 5.10

5.1.10 COM Port

Before configuring any COM Port, the user is required to login specific device servers by highlighting and double clicking on them (*Figure 5.11*).



This **COM Port configuration** option allows the user to configure the COM port without entering the Web UI. The user can find detailed COM Port setting explanations within the options and additional settings from within the Web UI device server's user manual. Users can select several devices at the same time to carry out the same configuration by clicking the **"Apply for all serial ports".**

		node C UDP mod	la .
Local port 4660		Connection limit: 1	-
Prefer.			
		Apply to	all serial ports
OM property:	App	ly to all serial ports Refr	esh
Port type:			
• RS232	C RS422	C RS4	185
Baud rate:		Data bits:	Parity:
€ 300 € 9600	C 230400	C 5bits C 7bits	None
C 600 C 19200	C 460800	⊂ 6bits ← 8bits	C Odd
C 1200 C 38400	€ 921600	- Soo hite:	CEven
C 2400 C 57600 C 4800 C 115200		@ 1 C 2	C Space
	Serial): Packet	delimiter(Serial to Network):	Flow control
Packet delimiter(Network to S	e	imer Enable	None
Packet delimiter(Network to S	G		C Xon/Xoff
Packet delimter(Network to 3 Timer Frable 32772 (10-30000m	(F)	10 (10-30000msec)	
Packet delimiter(Network to 3 Timer Table 32772 (10-30000m Characters	eec)	10 (10-30000msec) haracters	C RTS/CTS
Packet delimiter(Network to 5 Timer Frabil 32772 (10-30000m Characters Characters	sec) [I Code) [10 (10-30000meec) heracters ("0x"+ASCII Code)	C RTS/CTS

Figure 5.12

5.1.11 Locate

This **Locate** function allows users to locate any device's physical location. The serial manager will command the device to emit a series of intermittent beeps, once this function is selected. Users can stop the beeping by clicking the 'Locate' function again. Users can also find the locate icon on the toolbar (*Figure 5.13*).



Figure 5.13

5.1.12 Reboot

This reboot function is to restart any device sensed on the network. Usually a device will restart after parameters are changed as well, as shown in *Figure 5.14*.

	\mathbf{E}				
	Search	Configuration Security	Advance	Virtual COM	About
		Network	Ctrl+N		
		SNMP	Ctrl+S		
	No.	COM Port	Ctrl+P		IP Ad
	1				10.0.1
	2	Locate			10.0.1
	3	Reboot			10.0.1
	4				10.0.1
	5	Import Setting			10.0.7
	6	Export Setting			10.0.3
	7	Carlo by barrows			10.0.
	8	Config by browser		_	10.0.
	9	Config by Telnet			10.0.9
	10	Orthogo			10.0.1
1	11	Options			10.0.2

Figure 5.14

5.1.13 Import Settings

This import settings function allows users to import any previously saved setting or pre-configured setting file to the device. An easy-to-use icon is located on the toolbar (*Error! Reference source not found.*).



Figure 5.15

By clicking on the function or the icon, a pop-up window will request the path of the file, as in *Error! Reference source not found*.

\mathbf{E}		Serial Man	ager V4.9.4		- 🗆 🗙
Search	Configuration Security Advanced Virtual CC	M About			
No.	Caution Model	IP Address	MAC Address	Host Name	Kernel A
1 2 3	STE-501C STE-502C STE-6104C-T	10.0.21.99	00:60:E9:00:91:53 Open	×	V1.52 V4.12 V3.02
4	STW-611C	Look in: Documents	•	← 🗈 📸 📰 ▼	V3.11
5	STE-516C	1: Name Fairy My Drawings My Shapes original QFX2CSV File name: Files of type: SerialMana	nger Format (*.adm)	Date modified ↑ 4/21/2014 10:01 AM 5/1/2014 5:29 PM 5/22/2014 2:55 PM 11/13/2014 4:22 PM 7/17/2014 4:18 PM ↓ Open ↓ Cancel	V2.11
<					>>
Ready, To	tal 0 devices				

Figure 5.16

open a file: C:\U	sers\Philip\Desk	top\SW550	02_0060e90	96154.adm
lodel: STW	/-611C			
IP setting:			SNMP settin	ng:
IP address:	10 0 . 10 .	20	Name:	7F68BF-D3B6
Subnet mask: 2	55.255.0.	0	Location:	location
Default gateway:	0.0.0.	254	Contact:	contact
COM ports setting:		1.		
Selected COM Port:	COM1	-]	
Туре:	RS232	Alias n	ame:	
Baud rate:	9600	Data b	its:	8 bits
Stop bits:	1 bit	Parity:		None
Flow control:	None			
Packet delimiter(Netv	vork to Serial):	32	772 ms	
Packet delimiter(Seria	al to Network):			
Link mode:	TCP server	mode / Vi	rtual COM: D	isabled
	Local port:	0		
	Max conne	ctions: 0		
Apply for all select	ed devices with	the same	model	
Ponup this dialog w	dile importing su	ettings to t	he next devi	CP.

Figure 5.17

Choose the file to be uploaded and confirm the settings, then press OK to load the settings and finish importing.

5.1.14 Export Settings

The export settings function allows users to export (or save) the device's settings. An easy-to-use icon is located on the toolbar (*Error! Reference source not found.*).



Figure 5.18

Choose the file path for the file and confirm the settings, then press OK to save the settings which will finish this step (*Figure 5.19*).

IP setting:		SNMP	setting:		
IP address: 1	0.0.50.	100 Name	0060E90B4EB0		
Subnet mask: 25	5.255.0.	0 Locat	ion: location		
Default gateway:	0.0.0.	254 Conta	ct: contact		
COM ports setting:					
Selected COM Port:	COM1	•	Refresh		
Type:	RS232	Alias name:			
Baud rate:	9600	Data bits:	8 bits		
Stop bits:	1 bit	Parity:	None		
Flow control:	None				
Packet delimiter(Netw	ork to Serial):	32770 ms			
Packet delimiter(Serial	to Network):	Disabled			
Link mode:	TCP server mode / Virtual COM: Disabled				
	Local port: 4	4660			
	Max connec	tions: 1			
ave to a file:	Program Files (x86)\Managemer	nt Utility\SerialMar		
Save all the select	ed devices:				
C Popup this dialo	g while exportin merate the next	ig settings from n title name	ext device		
		100	1.1		

Figure 5.19

5.1.15 Configure by Browser

Antaira Technologies' serial device server series are supplied with build-in Web servers. Users can carry out any parameter setting directly through the submenu option **"Config by Browser".** By clicking on this function, a web browser window will pop-up, as shown in Figure 5.20.

🕤 🕤 🦉 ht	tp://10.0.50.100	/index.as	p	0 - Q	🥔 Antaira - Serial Server
	ira" ity simple				
Overview	Overview				
Network	The gener	al device in	formation of Serial Se	erver.	
Serial			Dourioo	Information	
COM 1			Device	momauon	
COM 2		Model N	ame	STE-71	6A
COM 3		Kernel V	resion	4.12	
COM 4		AP Vers	ion	4.44*	
COM 5					
COM 6			Network	k Information	
COM 8			TYCIWO!/	(Intornation	
COM 9		LAN 1	MAC Address	00:60:E9:13:AC:2	0
COM 10			IP Address	10.0.50.100	
COM 11			MAC Address	00:60:E9:13:AC:2	1
COM 12		LAN 2	IP Address	192.168.1.1 (Link	down)
COM 13					- 12
COM 14			5000	Information	
COM 15			ERPS	iniormation	
COM IO		Ring State		NA	
SNMP/ALERT Setting	gs	West Port	State(Port 1)	NA	
E-mail Settings		East Port	State(Port 2)	NA	
Log Settings					
System Setup			Spanning 1		
Reboot			Spanning i	nee momauon	
		Spanning	Tree Status	Disabled	
		Force Ver	sion	RSTP	
		Priority		32768	
		Maximum	Age	20	
		Hello Tim		2	

The web-server can also be accessed by clicking on the following icon located within the toolbar





Figure 5.21

5.1.16 Configure by Telnet

Antaira Technologies' industrial serial device server series support **Telnet** configurations. Users can use the command line interface to modify any settings in the device. When this option is clicked on, a pop-up window will appear as shown in *Error! Reference source not found.*.

**Notes: Please be aware that Windows Vista / Windows 7 or higher do not have Telnet client installed by default. To install Microsoft Telnet client on these systems, view the following steps.

- 1. Click Start, and then click Control Panel.
- 2. On the Control Panel Home page, click Programs.
- 3. In the Programs and Features section, click Turn Windows features on or off.
- If the User Account Control dialog box appears, confirm the action it displays and click Continue.
 - 🗆 🗙 Serial Manager V4.9.4 \mathbf{E} Search Configuration Security Advanced Virtual COM About 9 Q. 288 7 Nº O e No Model IP Address MAC Address Host Name Kernel A STE-501C 10.0.21.99 00-60-50-00-01-52 V1.52 Teinet 10 0 50 10 STE-502C 10.0.2.159 V4.12 2 x 2.4.18-STE-1 3 STE-6104C-T 192.168.10 V3.02 10.0.50.100 STW-611C 4 5 STE-516C 172.16.1.25 V2.11 Ready, Total 0 devices
- 5. In the Windows Features list, select Telnet Client, and then click OK.

Figure 5.22

It can also be accessed by clicking the following icon on the toolbar, as in Figure 5.23.



Figure 5.23

5.1.17 Options

The options function allows users to set the device's search time interval and whether or not to display information tips, as in *Figure 5.24*.

\mathbf{E}		Serial Ma	nager V4.9.4			ĸ
Search	Configuration Security Advanced Virtual	COM A <u>b</u> out				
3	la 🖉 🙆 🖉 🕸 🖏	(73) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1				
No.	Caution Model	IP Address	MAC Address	Host Name	Kernel	A
1	STE-501C	10.0.21.99	00:60:E9:00:91:53		V1.52	
2	STE-502C	10.0.2.159	00:60:E9:07:2C:93		V4.12	
3	STE-6104C-T	192.168.10	00:60:E9:00:2C:2E		V3.02	
4	STW-611C	10.0.50.100	00:60:E9:0F:2C:74		V3.11	
5	STE-516C		Options	×	V2.11	
		Search devices every 5	seconds (must >= 5)			
		Show device tip				
		NIC Selection DEFAULT		•		
		,		_		
				OK Cancel		
<						>
Ready, To	otal 0 devices					

Figure 5.24

There are a few more options to select:

- Search devices every
 seconds
 - Enable it and insert a time interval, in order to allow the Serial Manager to "scan" the network.
- Show device tip
 - When it is enabled, it will show tool tips when the mouse pointer stays on any device's entry after 2 seconds.
- NIC Selection
 - Users can select which Network Interface Card the Serial Manager will use.

5.2 Security

This section will show the security features for accessing the device.

- ♦ Login
- Logout
- Change Password

$\overline{\mathbf{O}}$	Serial Man	ager V4.9.4
Search Configuration Security	Advanced Virtual COM About	
Login	6 Ik I 🛱 Ib Ib 🧑	
Logout		
Change Password	IP Address	MAC Address
change Password	62 10.0.50.100	00:60:E9:13:AC:20

Figure 5.25

5.2.1 Login

It is necessary to login the device before accessing any functions of any specific serial devices. An available icon is on the toolbar, as in *Figure 5.26*.



Figure 5.26

5.2.2 Logout

To logout of the serial manager program, users can click on the "Logout" option under the 'Security' menu tab. A short-cut icon is also located on the toolbar, as in *Figure 5.27*.



Figure 5.27

5.2.3 Change Password

The **Change Password** option allows users to change the administrator's password directly on the device instead of going through the web interface.

\mathbf{E} Serial Manag Search Configuration Security Advanced Virtual COM About 5.3 Firmware Download Parameter 7 Erase Flash No **IP Address** M. Antaira Technologies will provide Firmware Download... Ctrl+D Firmware updated firmware (firmware and kernel) versions from × Download Firmware from Disk time- to- time for all industrial networking equipment. Please select a kernel firmware or AP firmware from the disk, and then download it to the device STE-716A Users can download and save the latest firmware (10.0.50.100) Current version version from within any specific product page on Antaira Kernel: V4.12 AP: Serial Server V4.44* Technologies' website www.antaira.com. O Download kernel firmware C:\Program Files (x86)\Management Utility\Serial To upgrade to the latest firmware through the Serial Ownload AP firmware C:\Program Files (x86)\Management Utility\Serial Manager Program, users can click on the Firmware Apply for all selected devices have same model option under the "Advanced" tab on the menu bar, and 🔲 Pop up report dialog then click on 'Firmware Download'. A pop-up window will Pop up Authorize dialog Upgrade Cancel then appear (Figure 5.28). Figure 5.28

Users can choose whether or not to update the kernel or firmware. If the user chooses to update, a pop-up window will appear to request the download path (Figure 5.29).

\mathbf{O}				Serial Mar	nager V4.9.4			- 🗆 🗙
Search	Configuration	Security Advanced Virtual Co	OM About	(magazini)				
2	00 00	6 4 8 8	团势势					
No.	Caution	Model	IP Address		MAC Address		Host Name	Kernel A
1 2 3		STE-501C STE-502C STE-6104C-T	10.0.21.99 10.0.2.159 192.168.10	Do	00:60:E9:00:91:5 wnload Firmware from D	3 Disk		V1.52 V4.12 V3.02
4		STW-611C	10.0.5	Please selec	Open	re nom the		V3.11
5		STE-516C	172.16 Look in:	Desktop Libraries Network se5416a_ant DLD File 3.56 Mile se Download	00:60:E9:A1: () 4 airs_special_K41 artars_special_K41.dd ded Fenware Format ("hex" ben."	d - Cancel		V2.11
Keady, T	otal 0 devices							,

Figure 5.29

Alternatively, press **Ctrl + D** to access the firmware download, or click on the **Upgrade from Disk** icon on the menu toolbar, as *Figure 5.30*.





5.4 Virtual COM

The **Virtual COM** function can be configured within the serial manager without going to the serial/IP's control panel.

In this section, users will find the following options:

- Show Configuration
- Add Devices
- Add Device (Manually)
- Remove Devices
- Port Enable
- Port Disable
- Apply
- Serial/IP Tools

0	Seria	Il Manager V4.9.4		- • ×
Search Configural Security Advanced Virtual COM	About	2		
No. Caution Add devices Add device (Manually)	P Address	MAC Address	Host Name	Kernel A
2 Remove devices	10.0.21.99 10.0.2.159	00:60:E9:00:91:53 00:60:E9:07:2C:93		V1.52 V4.12
3 Port Disable	192.168.10 10.0.50.100	00:60:E9:00:2C:2E 00:60:E9:0F:2C:74		V3.02 V3.11
5 Serial/IP Tools	172.16.1.25	00:60:E9:A1:10:0B		V2.11
K Ready. Total 0 devices				>

Figure 5.31

5.4.1 Show Configuration

A new Virtual COM working area will appear at the bottom of the serial manager program UI after "Show Configuration" is clicked, and then the menu will change into "Configuration Hide", as shown in *Figure 5.32*.

Advanced Virtual COM figuration Hide I devices I device (Manually) nove devices Enable Disable I/y al/IP Tools	About About P Address 10.0.21.99 10.0.21.59 192.168.10 10.0.50.100 170.46.4.25	MAC 00:6 00:6 00:6	Address 50:E9:00:91:5 50:E9:07:2C:9 50:E9:00:2C:2	Host Name 3 13 12	Kernel V1.52 V4.12 V3.02
l devices (device (Manually) nove devices Enable Disable dy al/IP Tools	P Address 10.0.21.99 10.0.2.159 192.168.10 10.0.50.100	MAC 00:0 00:0 00:0	Address 60:E9:00:91:5 60:E9:07:2C:9 60:E9:00:2C:2	Host Name 3 13 12	Kernel V1.52 V4.12 V3.02
aevice (Manuality) nove devices Enable Disable dy al/IP Tools	10.0.21.99 10.0.2.159 192.168.10 10.0.50.100	00:0 00:0 00:0 00:0	60:E9:00:91:5 60:E9:07:2C:9 60:E9:00:2C:2	3 13 E	V1.52 V4.12 V3.02
Enable Disable Iy al/IP Tools	192.168.10 10.0.50.100	00:0	60:E9:00:2C:2	E	V3.02
ly al/IP Tools	10.0.50.100	00:0	SO-E9-0E-2C-7		10.02
al/IP Tools	170 46 4 95		50.23.01.20.7	74	V3.11
	172.10.1.20	00:6	60:E9:A1:10:0	В	V2.11
P Address	Host Name	Port	Mapping	Remark	
F	² Address	Address Host Name	P Address Host Name Port	P Address Host Name Port Mapping	P Address Host Name Port Mapping Remark

Figure 5.32

5.4.2 Add Devices

Users can select one or multiple devices to establish a Virtual COM connection with. After any specific device is highlighted from the serial manager program, users can just right click in the blank working area at the bottom of the UI, and then select "Add devices" (*Figure 5.33*).

\odot		Ser	ial Manage	r V4.9.4			- 🗆 🗙
<u>Search</u> <u>C</u> onfiguratio	n S <u>e</u> curity <u>A</u> dvanced V <u>i</u> rt	ual COM A <u>b</u> out					
2 & 0		1 2 2 2 2	0				
No. Caution	Model	IP Address	MA	C Address	Hos	t Name	Kernel
1 2 3 4 5 6 7 7	10.0.21.99 10.0.21.59 10.0.21.09 10.0.21.199 10.0.21.21 10.0.21.32 10.0.21.33	00:60:E9:00:91:53 00:60:E9:1C:31:03 00:60:D6:00:37:A2 00:60:C9:10:71:B3 00:60:C9:10:31:63 00:60:E9:25:97:A1 00:60:E9:25:D1:73				V1.52 V2.42 V1.32 V1.22 V1.02 V1.52 V1.52	
		10.0.21.00			Add devices Remove devices		1102
<					Port Enable		>
Model	IP Address	Host Name	Port	Map	Port Disable		
STE-716A STE-716A STE-716A	10.0.50.100 10.0.50.100 10.0.50.100	0060E9-13AC20 0060E9-13AC20 0060E9-13AC20	1 2 3	CC CC CC	Apply	erver Mode erver Mode erver Mode	
Ready, Total 1 devices	10.0.50.100	NNKNE9.130C20	4	COM	TCP nort = A	663 Server Mode	

Figure 5.33

5.4.3 Remove Devices

Users can remove any specific device from the Virtual COM working area by just highlighting the specific model, right clicking, and then selecting "Remove devices" (*Figure 5.34*).

$\mathbf{\Theta}$		Serial Mar	nager V4.9.4				×
Search Configuration	n S <u>e</u> curity <u>A</u> dvanced Virtual CO	DM A <u>b</u> out					
	e 4 9 8	2 \$\$ 0					
No. Caution	Model	IP Address	MAC Address		Host Name	Kernel	A
1	STE-501C	10.0.21.99	00:60:E9:00	:91:53		V1.52	
2	STE-502C	10.0.21.59	00:60:E9:1C	:31:03		V2.42	
3	STE-6104C-T	10.0.21.09	00:60:D6:00	:37:A2		V1.32	
4	STW-601C	10.0.21.199	00:60:C9:10	:71:B3		V1.22	
5	STW-611C	10.0.21.21	00:60:C9:10	:31:63		V1.02	
6	STE-716A	10.0.21.32	00:60:E9:25	:97:A1		V1.52	
7	STE-716A	10.0.21.33	00:60:E9:25:	:D1:73		V1.52	
8	STE-716Bi	10.0.21.38	00:60:E9:34:	D3:23		V1.52	
				Add devices			
<				Remove devices			>
Model	IP Address	Host Name P	ort Ma	Port Mapping			^
STE-716A	10.0.50.100	0060E9-134C20 1	CO	Port Enable	4660, Server Mode	dis	
STE-716A	10.0.50.100	0060E9-13AC20 2	COI	Port Disable	4661, Server Mode		
STE-716A	10.0.50.100	0060E9-13AC20 3	COI	Apply	4662, Server Mode		
STE-716A	10.0.50.100	0060E9-13AC20 4	COhu	TCP put	- 4663, Server Mode		~
<							>
Ready, Total 0 devices							- 11

Figure 5.34

5.4.4 Port Mapping

The Port Mapping function is to allow users to configure it manually (Figure 5.35).

Virtual COM Settings						
Please select the COM port which you would like to redirect to Serial/IP.						
COM5 : connect to 10.0.174.100, 4660						
TCP port: 4660						
Mode: © Server mode C Client mode						
Restore Failed Connection						
OK Cancel						

Figure 5.35

5.4.5 Port Enable

Users can enable Virtual COM for a specific port by selecting "Port Enable". The ports enable automatically when they are added. This option is available once **Show Configuration** has been selected.

5.4.6 Port Disable

Users can disable Virtual COM for a specific port by selecting "Port Disable". As the last option, it is available once **Show Configuration** has been selected.

5.4.7 Apply

Remember to click **Apply** to apply any changes.

5.4.8 Serial/IP Tools

In this section, users can find options to open external Serial/IP Control Panel, Port Monitor, and Trace Window, as in *Figure 5.36*.

$\mathbf{\overline{O}}$		Se	erial Manag	er V4.9.4		- 🗆 🗙
Search Configuration	n S <u>e</u> curity <u>A</u> dvanced V	rtual COM About	U.			
1 4 5	2 4 3	Configuration Hide	6			
No. Caution	Model	Add devices	M	AC Address	Host Name	Kernel
1	STE-501C STE-502C	Add device (Manually) Remove devices	00):60:E9:00:91	1:53 1:03	V1.52 V2.42
3	STE-6104C-T	Port Enable	00):60:D6:00:37	7:A2	V1.32
4	STW-601C	Port Disable	00):60:C9:10:71	1:B3	V1.22
5	STW-611C	Annh	0):60:C9:10:31	1:63	V1.02
6	STE-716A	мрріу	0	0:60:E9:25:97	<u>/</u> :A1	V1.52
7	STE-716A	Serial/IP Tools	Contro	I Panel	73	V1.52
8	STE-716Bi	10.0.21.38	Port M Trace V	onitor Window	:23	V1.52
٢						,
Model	IP Address	Host Name	Port	Mapping	Remark	^
STE-716A	10.0.50.100	0060E9-13AC20		CON1	TCP port = 4660, Server Mode	
STE-716A	10.0.50.100	0060E9-13AC20	2	COM1	TCP port = 4661, Server Mode	
STE-716A	10.0.50.100	0060E9-13AC20	3	COM1	TCP port = 4662, Server Mode	
STE-716A	10.0.50.100	0060E9-13AC20	4	COM1	TCP port = 4663, Server Mode	~
<			-			>
Ready, Total 0 devices						

Figure 5.36

5.5 **About**

This option is for showing software and contact information.

Antaira Customer Service and Support (Antaira US Headquarter) + 844-268-2472 (Antaira Europe Office) + 48-22-862-88-81 (Antaira Asia Office) + 886-2-2218-9733 Please report any problems to Antaira: <u>www.antaira.com</u> / <u>support@antaira.com</u> <u>www.antaira.eu</u> / <u>info@antaira.eu</u> <u>www.antaira.com.tw</u> / <u>info@antaira.com.tw</u>

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