



Installation and Operation Manual



Schedule Sentinel *Web Enabled Event Scheduler*

For firmware versions equal to or greater than SSX_V1.07_SSW_V1.07.lxi

Manual updated: 09/30/2011

If you need a firmware upgrade, contact Broadcast Tools®

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NOTE: We recommend the use of Chrome, Firefox or Safari as your browser.

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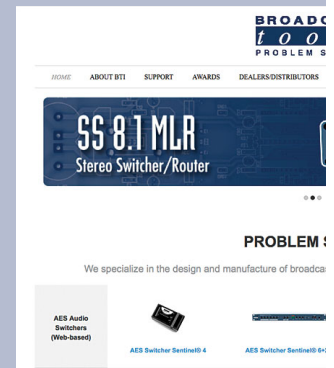
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INTRODUCTION

Thank you for your purchase of a Broadcast Tools® Schedule Sentinel® Web-based event Scheduler (referred to as the Schedule Sentinel® throughout this manual). We're confident that this product will give you many years of dependable service. This manual is intended to give you all the information needed to install and operate the Broadcast Tools® Schedule Sentinel®.

SAFETY INFORMATION

Only qualified personnel should install Broadcast Tools® products. Incorrect or inappropriate use and/or installation could result in a hazardous condition.

Any attempt to install this device by a person who is not technically qualified could result in a hazardous condition to the installer or other personnel, and/or damage to the Schedule Sentinel® or other equipment. Please ensure that proper safety precautions have been made before installing this device. If you are unfamiliar with this type of equipment, please contact a properly qualified engineer to handle the installation and setup of the Schedule Sentinel®.

Broadcast Tools, Inc., is unable to support NON-Broadcast Tools software, hardware or NON-Broadcast Tools computer/hardware/software problems. If you experience these problems, please research your hardware/software instruction manuals or contact the manufacturers technical support department.

WHO TO CONTACT FOR HELP

If you have any questions regarding your product or you need assistance, please contact your distributor from whom you purchased this equipment.

If you would like more information about Broadcast Tools® products, you may reach us at:

Broadcast Tools, Inc.

131 State Street

Sedro-Woolley, WA 98284-1540 USA

Voice: 360.854.9559

Fax: 866.783.1742

Internet Home Page: www.broadcasttools.com

E-mail: support@broadcasttools.com

THANK YOU FOR CHOOSING BROADCAST TOOLS® BRAND PRODUCTS!

Broadcast Tools is a Veteran Owned Business



Designed, Assembled and Supported in WA State, USA



CAUTION!

Broadcast Tools® Products, as with any electronic device, can fail without warning. Do not use this product in applications where a life threatening condition could result due to failure.

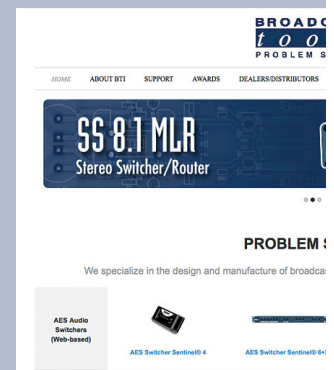


NOTE:

This manual should be read thoroughly before installation and operation.

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INTRODUCTION

Product Overview

The Schedule Sentinel® is a web-based event scheduler that can store and control up to 100 unique events using any available NTP timeserver as a time base. Events may be programmed with any or ALL Hour(s)/Minutes/Seconds and Day/Month or Day of Week and are recurring, while any event may be executed manually. Each event can store up to 45 ASCII or HEX value serial strings, along with control characters and programmable string delays. Configuration and events scheduling are programmed using a standard web browser. The Schedule Sentinel® is equipped with two independent RS-232 serial ports. Applications include; remote control of any combination of TWO, ABC/CC “XDS” Pro, WW1 IDC “MAX”, StarGuide II / III, Wegener Unity 4000, ComStream receivers, analog, AES, video switchers or other devices requiring RS-232 serial control.

Inspection

Please examine your Schedule Sentinel® carefully for any damage that may have been sustained during shipping. If any is noted, please notify the shipper immediately and retain the packaging for inspection by the shipper. The package should contain the Schedule Sentinel® this manual and/or CD, 7 foot BLUE straight-through CAT 5 cable, 7 foot GRAY crossover CAT 5 cable, two 7-foot DB-9 straight-through serial cables, null-modem adapters and the 7.5 VDC @ 500ma or higher wall transformer.

Surge Protection

The Schedule Sentinel® has built-in resistance to voltage changes; we recommend that you use a power surge protector or line conditioner on the incoming AC line. Lightning strikes and/or other high voltage surges may damage your Schedule Sentinel® and/or connected equipment if it is not properly protected. For lightning protection devices, check out www.polyphaser.com and www.itwlinx.com.

UPS Standby Power System

We recommend that you connect your Schedule Sentinel® to a UPS system to provide backup power during a power outage.

Serial port 1 and 2, male DB-9 connectors

Connect the female end of the supplied male/female straight-thru serial cable to either of these connectors and the male end to the user provided equipment to be controlled.

“NET” Network connector

Connect one end of the supplied CAT5 (straight or xover) cable to desired ETHER-NET (WAN/LAN) port.

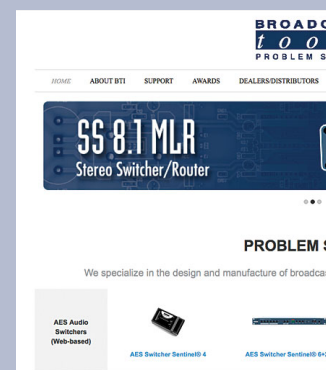


CAUTION!

Installation of the Schedule Sentinel® in high RF environments should be performed with care. The station ground should be connected to any available rear panel ground terminal or chassis ground screw using a 20 to 24-gauge wire.

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POWER connector (7.5 VDC)

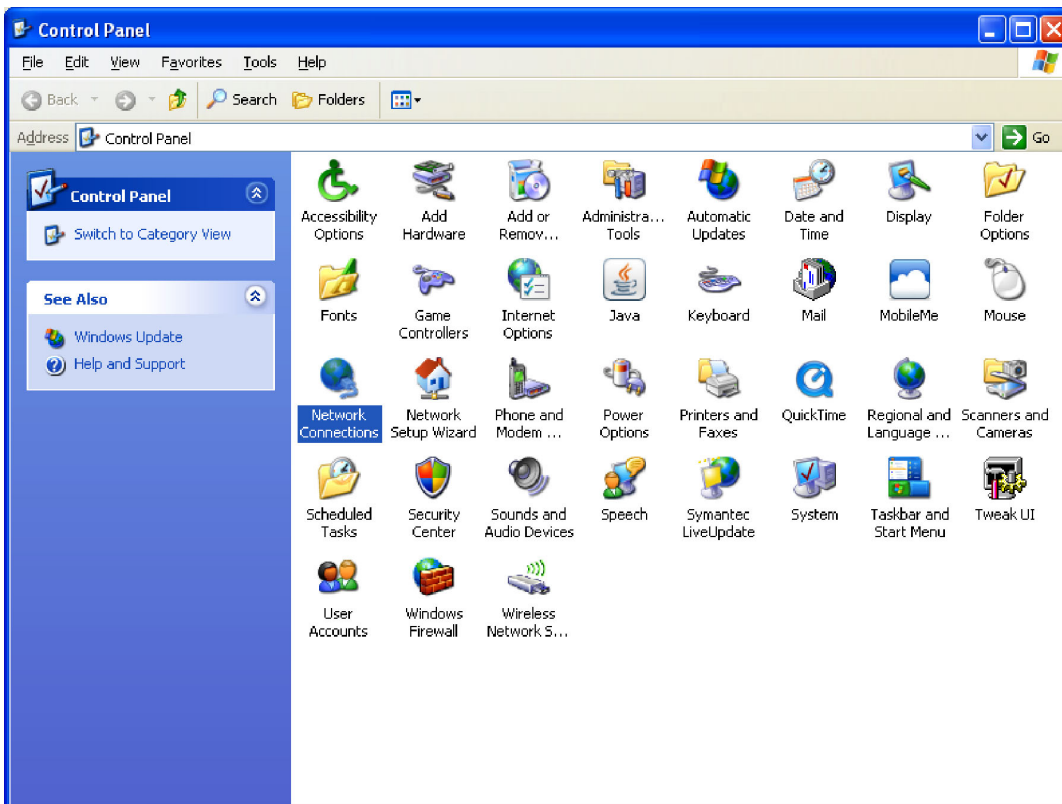
Connect the supplied 7.5 VDC power supply cord in to the Schedule Sentinel®'s power jack labeled "7.5 VDC PWR", then plug the transformer in to a source of 120vac 60Hz. Verify that the green "POWER" led is illuminated.

Web Setup/Operation

Ethernet "Quick Start" guide

Instructions for changing the IP address of the computer that will be used for the configuration of this product are given below. Note that these instructions are specifically for computers with the Windows XP operating system. For setup using other operating systems, refer to the appropriate OS users manual.

Step 1: Open the control panel by clicking on the start menu, click on settings, then click on Control Panel. (Note that the control panel shown is in "Classic View". If control panel is in "Category View" select the "Classic View" option before proceeding).

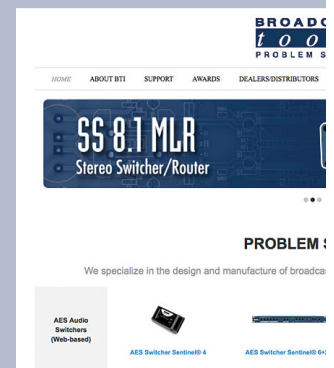


CAUTION!

If you are not familiar with Ethernet enabled equipment, it may be useful to contact your IT department, network administrator or network consultant for assistance. Assigning an IP address already in use by another device may cause problems with your network!

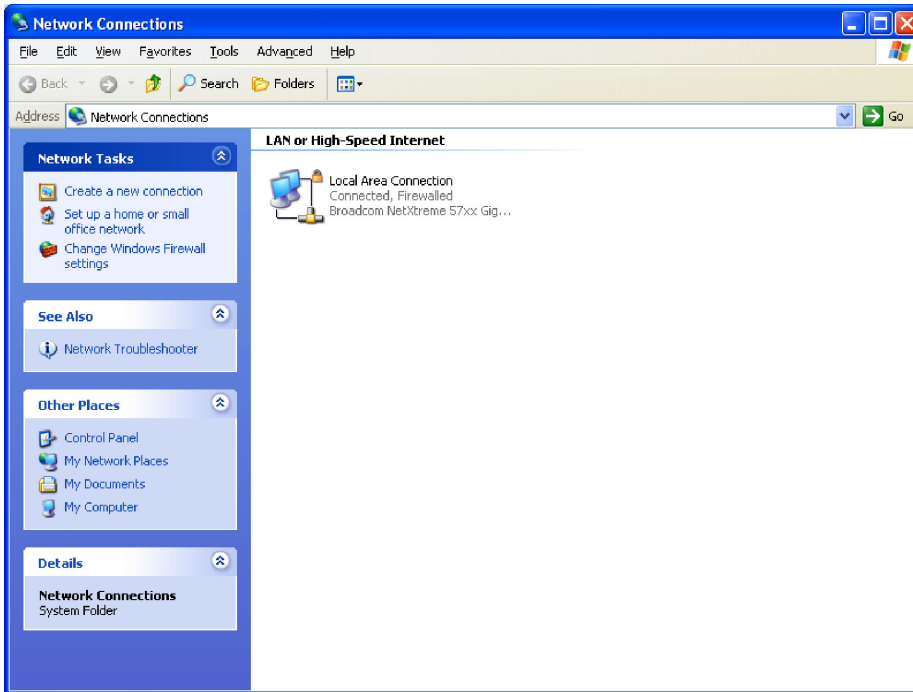
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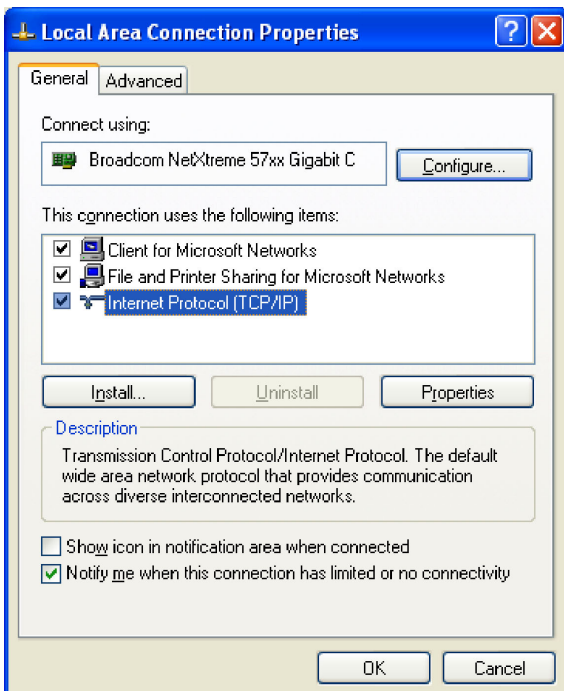


Web Setup/Operation

Step 2: Double click on the icon labeled Network Connections. The following menu will pop up.

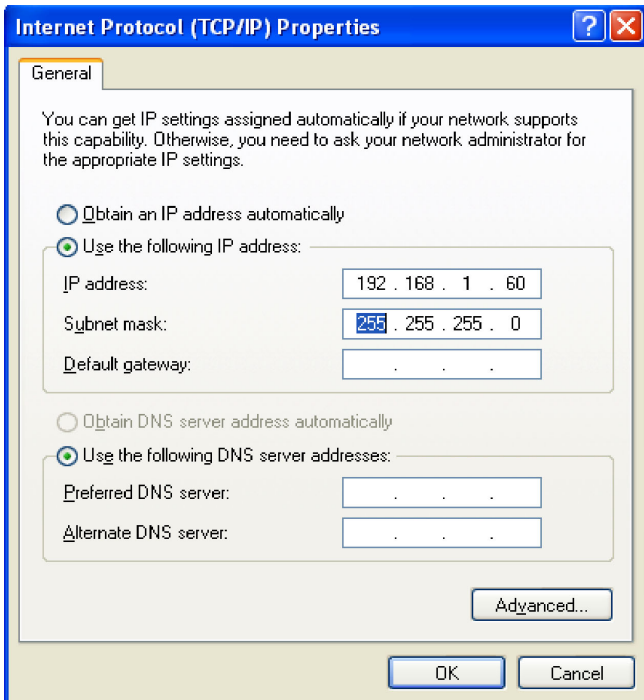


Step 3: Right click on the icon labeled Local Area Connection. Another menu will appear. Select the option at the bottom of the menu labeled Properties. The Local Area Connection Properties window will appear.



Web Setup/Operation

Step 4: On the Local Area Connection Properties page, double click on Internet Protocol (TCP/IP) to display properties.

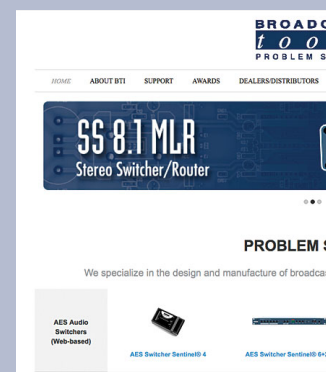


Step 5: Before making any changes to the network settings, write down the current settings (or screen capture the page and print) so that they can be restored once the unit is configured. Next, select the radio button labeled “Use the following IP address” and type in the IP address 192.168.1.60. Type in the subnet mask of 255.255.255.0. Leave the default gateway field blank. Click OK to apply the new settings.

1. Connect the supplied **GRAY** colored XOVER cable between the PC’s Ethernet port and the products NETWORK RJ45’s jack.
2. Connect the supplied power supply to the product’s power jack. Verify that the green “**POWER**” LED and left “**LINK**” LED above the “**NETWORK**” RJ-45 are illuminated

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Setup/Operation

Ethernet (NETWORK) port LED indicator functions

Link LED Left Side	
Color	Meaning
Off	No Link
Amber	10 Mbps
Green	100 Mbps

Activity LED Right Side	
Color	Meaning
Off	No Activity
Amber	Half Duplex
Green	Full Duplex

3. Open the Main/Login page by typing the following URL into the browser:
<http://192.168.1.55> A username and password is required to change any parameter and are case sensitive.

Factory network defaults:

username: admin (lower case)
password: 1234

4. Once you are logged in, follow the setup and/or operational information below.

Additional information needed to add this product to your network.

- 1 - An available Static IP address to assign to the **Schedule Sentinel®**.
NOTE: If a static IP isn't available, consider using <http://www.dynip.com/> or <http://www.dyndns.com/>
- 2 - The network's subnet mask.
- 3 - Your network's gateway address (essential for proper operation).
- 4 - IP address of a NTP timeserver, we suggest: **pool.ntp.org**

Restoring Network Factory Defaults

NOTE: The Schedule Sentinel® factory defaults may be restored by holding the "Default" button IN, while repowering the unit. Wait for 10 seconds, then release the "Default" button.



CAUTION!

NEVER DOWNLOAD FIRMWARE UPDATES OR CHANGES TO THE XPORT WEBSERVER. DOING SO DELETES ALL SOFTWARE AND VOIDS ALL WARRANTIES FROM BROADCAST TOOLS, INC.

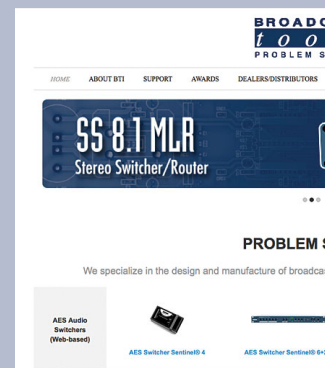


NOTE:

After programming is complete, we suggest that you perform a "Screen Shot" of each page and store it in a word processing file for later reference. We also advise printing out a copy.

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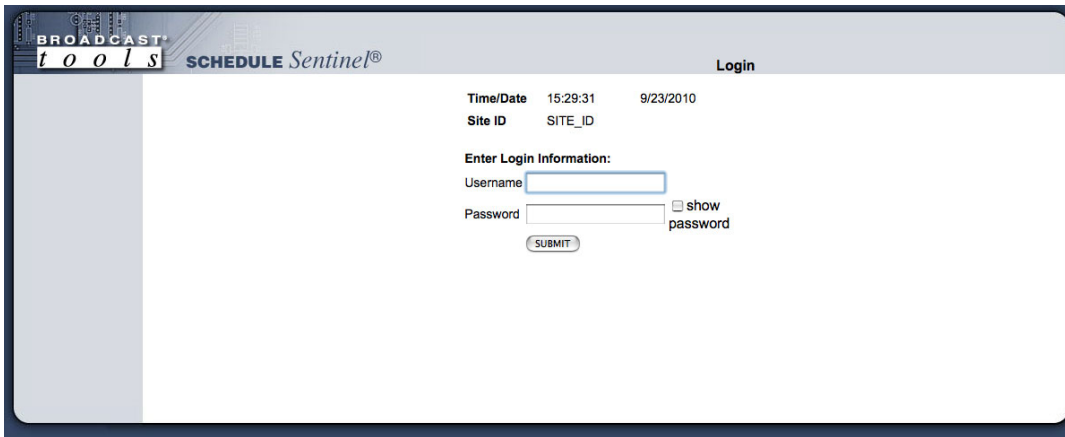
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Web Setup/Operation

“Login” Web Page

The Login screen displays the Username and Password entry points. You may view the password by checking the “Show Password” box after you have successfully logged in and the Scheduler web page is displayed. Depending on your access level, you may or may not be able to control or modify the product’s configuration. The time, date and site ID are also displayed on this page.



The screenshot shows the 'Login' page of the Schedule Sentinel web interface. The page has a header with 'BROADCAST tools' and 'SCHEDULE Sentinel®'. The main content area displays the following information:

- Time/Date:** 15:29:31 9/23/2010
- Site ID:** SITE_ID
- Enter Login Information:**
 - Username:** [text input field]
 - Password:** [password input field] ☐ show password
 - SUBMIT** button

Username: Enter the username. This is case sensitive.

Password: Enter the password. This is case sensitive.

Schedule Sentinel Installation and Operation Manual

“Scheduler” Web Page

The Scheduler web page allows for the entry of scheduled event time, date, DST changes and serial data. The following is an explanation of each item on this page:

Event #	Enable	Description	Frequency	Date Type	Date	Time	Port/Action	String	Next Event	Delete	Execute
1	<input checked="" type="checkbox"/>	Description	Repeat	Days/Months	M-T-W-Th-F Sep-Oct	All 48.0	Serial Port 1	*001	12:48:00 10/1/2010	Delete	Execute
2	<input type="checkbox"/>	Click for new schedule								Delete	Execute
3	<input type="checkbox"/>	Click for new schedule								Delete	Execute
4	<input type="checkbox"/>	Click for new schedule								Delete	Execute
5	<input type="checkbox"/>	Click for new schedule								Delete	Execute
6	<input type="checkbox"/>	Click for new schedule								Delete	Execute
7	<input type="checkbox"/>	Click for new schedule								Delete	Execute

Event #	Enable	Description	Frequency	Date Type	Date	Time	Port/Action	String	Next Event	Delete	Execute
1	<input checked="" type="checkbox"/>	Description	Repeat	Day/Month	M-T-W-Th-F Sep-Oct	All 48.0	Serial Port 1	*001	12:48:00 10/1/2010	Delete	Execute
2	<input type="checkbox"/>	Click for new schedule								Delete	Execute
3	<input type="checkbox"/>	Click for new schedule								Delete	Execute
4	<input type="checkbox"/>	Click for new schedule								Delete	Execute
5	<input type="checkbox"/>	Click for new schedule								Delete	Execute
6	<input type="checkbox"/>	Click for new schedule								Delete	Execute

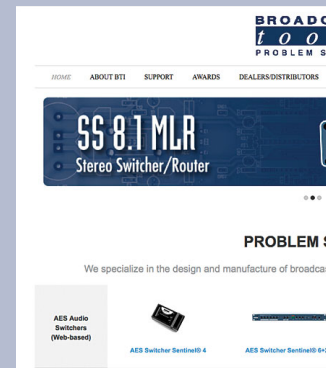
Event #	Enable	Description	Frequency	Date Type	Date	Time	Port/Action	String	Next Event	Delete	Execute
1	<input checked="" type="checkbox"/>	Description	Repeat	Days/Months	Su M T W Th F Sa Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec	All 48.0	Serial Port 1	*001	12:48:00 10/1/2010	Delete	Execute
2	<input type="checkbox"/>	Click for									

Event #	Enable	Description	Frequency	Date Type	Date	Time	Port/Action	String	Next Event	Delete	Execute
1	<input checked="" type="checkbox"/>	Description	Repeat	Days/Months	M-T-W-Th-F Oct	All 48.0	Serial Port 1	*001	12:48:00 10/1/2010	Delete	Execute
2	<input type="checkbox"/>	Click for new schedule								Delete	Execute
3	<input type="checkbox"/>	Click for new schedule								Delete	Execute
4	<input type="checkbox"/>	Click for new schedule								Delete	Execute

NOTE: The Time and Date are always displayed. Only “admin” level access can edit some of these items.

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WEB SETUP/OPERATION

Schedule Sentinel Installation and Operation Manual

BROADCAST tools SCHEDULE Sentinel® Scheduler

Time/Date 13:01:05 10/1/2010

refresh save

Event #	Enable	Description	Frequency	Date Type	Date	Time	Port/Action	String	Next Event	Delete	Execute
1	<input checked="" type="checkbox"/>	Description	Repeat	Days/Months	M-T-W-Th-F Oct	12:48:00	Serial Port 1	*001	12:48:00 10/1/2010	Delete	Execute
2	<input type="checkbox"/>	Click for new schedule					Serial Port 1			Delete	Execute
3	<input type="checkbox"/>	Click for new schedule					Serial Port 2			Delete	Execute
4	<input type="checkbox"/>	Click for new schedule					Add Hour			Delete	Execute
5	<input type="checkbox"/>	Click for new schedule					Sub Hour			Delete	Execute

BROADCAST tools SCHEDULE Sentinel® Scheduler

Time/Date 13:01:34 10/1/2010

refresh save

Event #	Enable	Description	Frequency	Date Type	Date	Time	Port/Action	String	Next Event	Delete	Execute
1	<input checked="" type="checkbox"/>	Description	Repeat	Days/Months	M-T-W-Th-F Oct	12:48:00	Serial Port 1	*001vvv	12:48:00 10/1/2010	Delete	Execute
2	<input type="checkbox"/>	Click for new schedule								Delete	Execute
3	<input type="checkbox"/>	Click for new schedule								Delete	Execute
4	<input type="checkbox"/>	Click for new schedule								Delete	Execute

Serial strings may be stored and activated manually or automatically on a scheduled basis. Up to 100 scheduled events can be defined and are recurring, while any event may be executed manually. The Schedule Setup Web page displays a list of scheduled events and allows the user to edit the schedule event's details described below.

- Event #** Event numbers 1 through 100. This doesn't represent the sequence events will run.
- Enable** Use this check box to enable or disable each event. This saves you the trouble of re-entering events.
- Description** Allows the user to describe the name of the function up to 24 characters.
- Frequency** Allows the user to select if the event will be "One Time" or will "Repeat".

- Date Type** The "One Time" event works with the "Exact Date" in the "Date Type" column. "Repeat" events work with the "Exact Date" or "Day/Month" in the "Date Type" column. Used to select either an exact date or day/month. This is used in the Date column.
- Date:** When the date type is set to an exact date, the desired date may be entered here. When the date type is set to day/month, check the desired Day of Week. Check the day(s) of the week on which the event should occur, along with the desired month(s).

NOTE: The schedule is circular. Example: An event scheduled for April 3 or June 5 occurs the next time that date rolls around.

Hour	Select any one or ALL hour(s) when the event should occur.
Minute	Select the minute when the event should occur.
Second	Select the second when the event should occur.
Port/Action	Serial port 1, Serial port 2, Add hour or subtract hour (for day light saving time correction).
String	Location to enter up to a 45-character serial string. Commands are sent exactly as entered (case-sensitive). Two ASCII control characters can be specified by prefixing them with the backslash < \ > character. Use the < \r > for a carriage return and < \n > for a line feed. Example: 12345678\r or 12345678\r\n
Next Event	Displays the next time this event is scheduled.
Delete	Deletes the selected event. If you press this key by mistake. Press the refresh button or exit the browser without saving.
Execute	Allows the user to manually execute the selected (serial only) event.
Save	Saves all unsaved event items.
Refresh	Refreshes the page. After an event has occurred, it will update the enabled events if it was a single event or it will show a new date.

Examples: 1 - To set up an event that occurs at 12:01AM on January 1, select Month=January, Day of Month=1, Hour=00, Minute=01, Second=00.

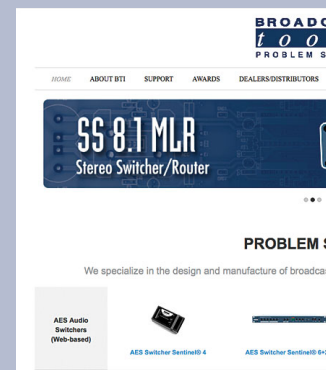
2 - To set up an event that occurs every Tuesday at 9:15AM, select all months, Day of Week=Tuesday, Hour=09, Minute=15, second=00.

A single event can be defined quite flexibly. However, complex schedules might require multiple events.

For example, to schedule an event that occurs at 16:30 on March 31, June 30, September 30, and December 31 would require four separate event entries.

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“Network Setup” Web Page

The Network Setup page allows the user to set up the following operating characteristics of the Schedule Sentinel®.

Restoring Network Factory Defaults

NOTE: The Schedule Sentinel® factory defaults may be restored by holding the “Default” button IN, repowering the unit, wait 5 seconds, then release the “Default” button.

Device Address: Enter a static IP address here. Default: 192.168.1.55

Device Netmask: Enter the Netmask here: Default: 255.255.255.0

Gateway Address: Enter the Gateway IP here: Default: 192.168.1.1

DNS Server IP Address: Enter your DNS address here. Default: 192.168.1.1

HTTP Port: Normally Port 80 Default: 80

SNMP Manager IP Address: This is the IP address of the SNMP manager. The system only accepts SNMP requests from this IP address, and will send traps to this IP address only.

SNMP Manager Trap Port: This is the port number that SNMP trap messages will be sent.

SNMP Read Community: This is the community name for Read-Only access.

SNMP Write Community: This is the community name for Read-Write access.

SNMP Enable Traps: When checked, trap messages will be sent. When Unchecked, no trap messages will be sent.

NTP (Time) Server Address: Enter the NTP address here. Default: pool.ntp.org

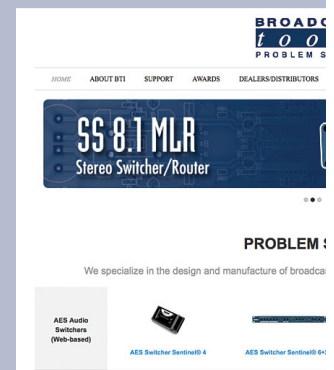
NTP Port: Normally 123. Default: 123

NTP Update Interval (Min): Time between timing updates. Default: 30

NTP Enabled: Must be enabled for correct timing.
Default: Enabled

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Command \$ Delay (ms)	Up to 9000ms (9 seconds).	Default: 100ms
Port 1 Login String	Enter the strings needed for serial port 1 (up to 45 characters).	
Port 2 Login String	Enter the strings needed for serial port 2 (up to 45 characters).	
Site ID	Any character (29 max) to indentify this site.	
	Time Zone Offset from UTC NTP time must be adjusted to account for time zones. This item lets the user specify the appropriate offset for his/her location from UTC time. Default: -8	
	Note: DST is set on the “Scheduler” web page.	
Save Settings:	After pressing the “Save Settings” button, the device will reboot (If you changed the IP address, you must navigate your web browser to the new IP address (if the HTTP port was changed from port 80, be sure to add the new port number after the IP: xxx.xxx.xxx.xxx:port #). If you didn’t change the IP address, then the web page will return to the login screen after the device reboots.	
Reboot Device:	When you press the “Reboot Device” button, the device resets, you must navigate your web browser to the new IP address.	

NOTE: After you are done making changes to the Network Setup Web page, you MUST press the “Save Settings” button to save your changes.

“User Setup” Web Page

Username	Password	Show Password	--- Access Level ---		
			Admin	Monitor Control	Monitor Only
admin	1234	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
		<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>

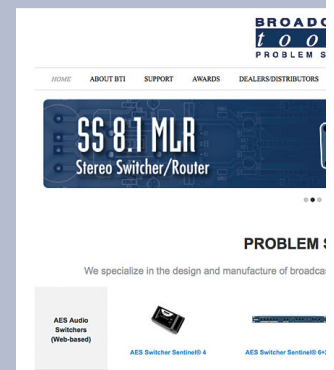
Save Settings

The User Setup web page is used to assign usernames, passwords and privilege levels for up to eight users. Privilege levels allow the following activities:

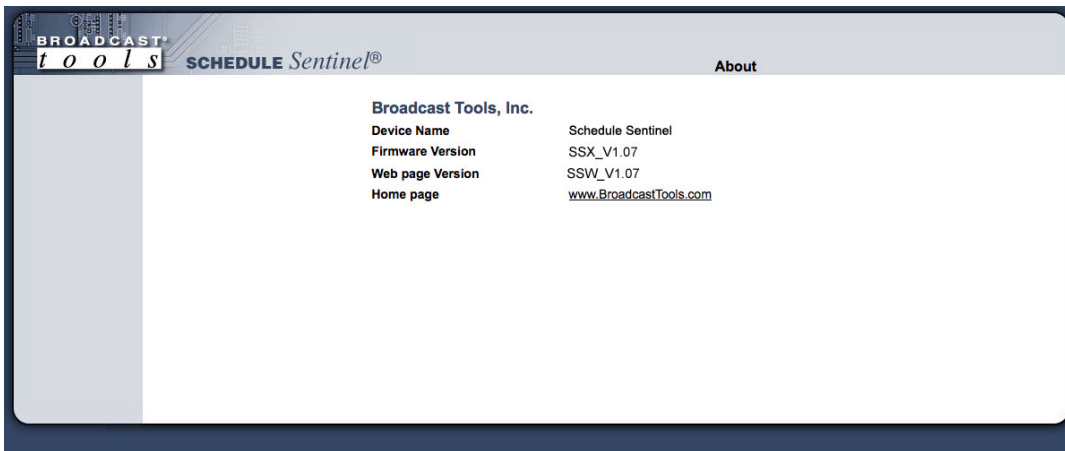
Username:	admin (lower case) (Default)
Default Password:	1234 (Default)
Show Password	You may view the password by checking the “Show Password” box
Admin	Allows the user with this privilege level access to all configuration pages.
Monitor/Control	Allows the user with this privilege level to view the schedule and manually execute any event.
Monitor Only	Allows the user with this privilege level to only view the schedule.
Buttons	Selects a privilege level.
Save Setting	Saves the settings and exits.

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“About” Web Page



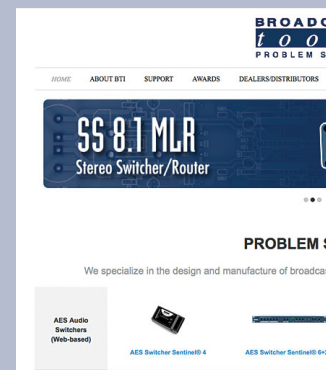
The “About” Web Page displays the product name, firmware version numbers, and Broadcast Tools® Web site link.

Specifications

Ethernet Interface:	RJ-45, 10Base-T or 100Base-TX, auto sensing with Link & Activity indicator - Full/half duplex.
Protocols:	TCP/IP, UDP/IP, ARP, ICMP, SNMP, TFTP, Telnet, DHCP, BOOTP, HTTP, and AutoIP.
Serial Connectors:	Two male DB-9
Serial Protocol:	RS-232, 9600,8,N,1
EMI / FCC Compliance:	See the Declaration of Conformity page. Operation is subject to the following two conditions: 1) This device may not cause harmful interference, and 2) this device must accept any interference received, including that which may cause undesired operation.
Power:	7.5 VDC @ 500ma, center positive. 2.1mm ID x 5.5mm OD coax connector. Surge protected. 7.5Vdc transformer supplied.
Operating Temperature:	32 to 122 °F / 0 to 50 °C for all operating voltage ranges.
Humidity:	0 - 90% RH, non-condensing.
Size:	6.18" x 3.70" x 1.42" (L,W,H)
Weight:	1.0 lb.
Options:	Universal 100-250VAC 50/60hz pwr supply. RA-1, 1-RU rack shelf. Note: Velcro may be used to secure the product to the RA-1 shelf.

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SPECIFICATIONS

LIMITED WARRANTY

The term “Buyer” as used in this document refers to and includes both (but only) (a) any person or entity who acquires such an item for the purpose of resale to others (i.e., a dealer or distributor of an item), and (b) the first person or entity who acquires such an item for such person’s or entity’s own use.

Broadcast Tools warrants to each Buyer of any item manufactured by Broadcast Tools that the item will be free from defects in materials and workmanship at the time it is shipped by Broadcast Tools if the item is properly installed, used and maintained.

EXCLUSIVE REMEDIES

If Broadcast Tools is notified, in writing, of a failure of any item manufactured by Broadcast Tools to conform to the foregoing Limited Warranty within one (1) year following the date of the Buyer’s acquisition of the item, and if the item is returned to Broadcast Tools in accordance with Broadcast Tools’ instructions for confirmation by inspection of the defect (which at Broadcast Tools’ election may include, without limitation, a requirement that the Buyer first obtain a Return Authorization number from Broadcast Tools, that the Buyer furnish proof of purchase in the form of an invoice and/or receipt, and that the Buyer prepay all freight charges associated with any return of the item to Broadcast Tools using such freight service as Broadcast Tools reasonably may specify), Broadcast Tools will repair or replace the defective item, or will refund the purchase price paid by the Buyer for the item. Broadcast Tools shall have the exclusive right to choose between these alternative remedies.

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Declaration of Conformity

The XPort Direct + Device contained in the Schedule Sentinel® conforms to the following standards: (according to ISO/IEC Guide 22 and EN 45014).

Manufacturer's Name & Address:

Schedule Sentinel®: Broadcast Tools, Inc.
131 State Street, Sedro Woolley, WA 98284-1503 USA

Lantronix 15353 Barranca Parkway, Irvine, CA 92618 USA

Declares that the following product:

Product Name Model: XPort Direct+

Conforms to the following standards or other normative documents:

Safety:

UL 60950-1

CAN/CSA-C22.2 No. 60950-1-03

Electromagnetic Emissions:

The XPort Direct+ has been tested to the following standards: VCCI, FCC, IC, CE and AS-NZS (30 MHz. – 1000 MHz), Class A Radiated Emissions.

Note: This product has been pre-tested to meet FCC Class A Radiated Emissions. However, because the XPort Direct+ will be embedded into the OEM's device, the OEM must get certification for the end product.

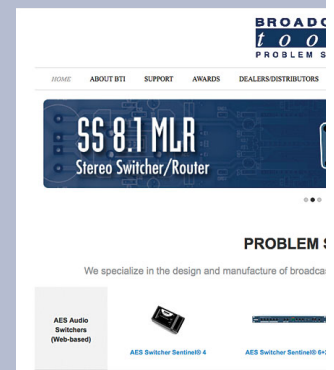
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WEBSITE:

Visit our web site for product updates and additional information.



DECLARATION