8.1 Introduction of SNMP IPv6 for ATS

The SNMP IPv6 for ATS, hereafter referred to as SNMP IPv6, is built in the ATS and is a device that provides an interface between the ATS and a network. It communicates with the ATS, acquires its information and remotely manages the ATS via a network system. The SNMP IPv6 supports public protocols including SNMP and HTTP. You can effortlessly configure this SNMP IPv6 using a network system and easily obtain your ATS's status and manage your ATS via the SNMP IPv6.

8.2 SNMP IPv6 Features

- Network ATS management Allows remote management of the ATS from any workstation through Internet or Intranet.
- Remote ATS monitoring via SNMP & HTTP Allows remote monitoring of the ATS using SNMP NMS, Delta MIB (Management Information Base) or a Web Browser.
- **ATS and system function configuration from any client (password protected)** Sets the ATS and system parameters through a Web Browser.
- Event logs & metering data keeping Provides a history data of the ATS's power events, power quality and status.
 - Other features and supported protocols include:
 - User notification via SNMPTraps and e-mail
 - Network Time Protocol
 - -Telnet configuration
 - BOOTP / DHCP
 - HTTPS, SSH, SFTP and SNMPv3 security protocols
 - RADIUS (Remote Authentication Dial In User Service) login and local authentication
 - Remote event log management through syslog
 - IPv6 Ready Logo certified (ID 02-C-000624).

8.3 Front view of SNMP IPv6



8.4 Console Management

You can manage the SNMP IPv6 through the "LOCAL" port. Please use an RJ45 to DB9 cable to connect the SNMP IPv6's "LOCAL" port and your workstation's COM port. Make sure both of the DIP switches are set to the OFF position (normal mode). The baud-rate of the workstation's COM setting should be 2400 bps.

Web Card Main Menu

+======+ Web Card Main Menu +=======+
Web Card Version 01.12.03 MAC Address 00-30-ab-26-b1-b4
[2].TCP/IP Setting [3].Network Parameter
[4].Time Server [5].Soft Restart [6].Reset All To Default
[d].Device Communication [z].Exit Without Save
[0].Save And Exit Please Enter Your Choice =>

User Manager

+======+				
User Manager				
+======+				
RADIUS				
<pre>[1].RADIUS Auth:Disable</pre>				
[2].Server:				
[3].Secret:				
[4].Port: 1812				
Local Auth				
Administrator				
<pre>[5].Account: admin</pre>				
[6].Password: *******				
[7].Limitation: Only in This LAN				
Device Manager				
<pre>[8].Account: device</pre>				
[9].Password: *******				
[a].Limitation: Only in This LAN				
Read Only User				
[b].Account: user				
[c].Password: *******				
[d].Limitation: Allow Any				
[0].Back To Previous Menu				
Please Enter Your Choice =>				

TCP / IP Setting

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TCP/IP Setting	l
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<pre>[1].IPv4 Address:</pre>	10.0.10.8
<pre>[2].IPv4 Subnet Mask:</pre>	255.255.255.0
<pre>[3].IPv4 Gateway IP:</pre>	10.0.10.254
<pre>[4].IPv4 DNS or WINS IP</pre>	:10.0.10.254
<pre>[5].DHCPv4 Client:</pre>	Enable
<pre>[6].IPv6 Address:</pre>	::
[7].IPv6 Prefix Length:	0
[8].IPv6 Gateway IP:	fe80::226:5aff:fecc:fda1
<pre>[9].IPv6 DNS IP:</pre>	::
[a].DHCPv6:	Disable
[b].Host Name(NetBIOS):	INSIGHTPOWER
[c].System Contactor:	
[d].System Location:	
[e].Auto-Negotiation:	Enable
[f].Speed:	100M
[g].Duplex:	Full
[h].Status Stable:	3
<pre>[i].Telnet Idle Time:</pre>	60 Seconds
[0].Back To Previous Me	าน
Please Enter Your Choice	e =>

Network Parameter

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Network Parameter			
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<pre>[1].HTTP Server:</pre>	Enable		
<pre>[2].HTTPS Server:</pre>	Enable		
<pre>[3].Telnet Server:</pre>	Enable		
<pre>[4].SSH/SFTP Server:</pre>	Enable		
<pre>[5].FTP Server:</pre>	Disable		
[6].Syslog:	Disable		
<pre>[7].HTTP Server Port:</pre>	80		
[8].HTTPS Server Port:	443		
[9].Telnet Server Port:	23		
[a].SSH Server Port:	22		
[b].FTP Server Port:	21		
<pre>[c].Syslog Server1:</pre>			
<pre>[d].Syslog Server2:</pre>			
<pre>[e].Syslog Server3:</pre>			
<pre>[f].Syslog Server4:</pre>			
[g].SNMP Get,Set Port:	161		
[0].Back To Previous Menu			
Please Enter Your Choice	e =>		

Time Server

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Time Server				
<pre>[1].Time Selection:</pre>	SNTP			
<pre>[2].Time Zone:</pre>	+8 hr			
<pre>[3].1st Time Server:</pre>	172.16.1.86			
<pre>[4].2nd Time Server:</pre>				
<pre>[5].Manual Date:</pre>	07/01/2011 (MM/DD/YYYY)			
<pre>[6].Manual Time:</pre>	09:02:10 (hh:mm:ss)			
[0].Back To Previous Menu				
Please Enter Your Choice =>				

+=======+
Web Card Main Menu
+========+
Web Card Version 01.12.03
MAC Address 00-30-ab-26-b1-b4
<pre>[1].User Manager</pre>
[2].TCP/IP Setting
[3].Network Parameter
<pre>[4].Time Server</pre>
<pre>[5].Soft Restart</pre>
<pre>[6].Reset All To Default</pre>
[d].Device Communication
<pre>[z].Exit Without Save</pre>
[0].Save And Exit
Please Enter Your Choice => 5
The Web Card Will Restart.
Are You Sure? [Y]es/[N]o =>

Soft Restart

Device Communication

You can enter the ATS Command Mode below by selecting Device Communication.

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∖TS> DevID .234567890abcdefghij .TS>	
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TS>	234567890abcdefghij
	ITS>

8.5 Upgrade

• Upgrade via Web

You can upgrade the SNMP IPv6's firmware or the ATS's firmware through the SNMP IPv6 for ATS Web (please see the following figure). The SNMP IPv6 will restart after finishing self-upgrade. If you upload the ATS's firmware to the Web, you can see the ATS's firmware upgrade progress from the Web.

Device	Syste	m		Abo
Administration		Notification	History	
User Manager	0	System » Admi	nistration » Upgrade	
Web	0	Network	Card Firmware	► ATS Firmware
Console	0	Current Ver Firmware File	:: XX.XX.XX e: Choose File No file chosen	Current Ver.: xxxxxx Release Date: xxxx-xx-xx
FTP	0		Upload	Firmware File: Choose File No file chosen
Time Server	0	DescriptionThis Plea	DescriptionThis feature is used to update the network card firmware. Please follow the following steps to complete the process: Stage: Idle state Step 1 Select the network card firmware file and press the Upload button to upload the file to the network card. Step 2 Wat about 1 minute for the network card to reprogram the DescriptionThis feature is used to update following steps to its of the followi	Stage: Idle state Status: OK
Batch Configuration	0	Step 1 Select the network card firmware file and press the Upload button to upload the file to the network card. Step 2 Wait about 1 minute for the network card to reprogram the flash and reboot again.		DescriptionThis feature is used to update the ATS firmware. Please follow the following steps to complete the process:
Upgrade	0		Step 1 Select the ATS firmware file and press the Upload button to upload the file to the network card.	
				Step 2 Wait about 2 minutes for the network card to reprogram the ATS flash.
		-	Copyright © 2011 Delta Ele	actronics, Inc. All Rights Reserved.

• Upgrade via FTP/ SFTP

You can also upgrade the SNMP IPv6's firmware or the ATS's firmware by using FTP or SFTP program. Make sure you upload correct images to upgrade_snmp when upgrading SNMP IPv6's firmware, and upload correct images to upgrade_device when upgrading the ATS's firmware.

- ▷ isonfig_snmp
- ▷ is config_system
- ▷ inttps_pem
- ≥ 📄 ssh_dsa
- ▷ issh pubkey
- ≥ 🖻 ssh_rsa
- ▷ □ upgrade device
- ▷ □ upgrade snmp

Command	Description	Parameter	Response
TempF	Report internal ATS fahrenheit temperature.		#
TempC	Report internal ATS celsius temperature.		#
Age	Report internal ATS age.		#
Time	Report present time.		hh:mm:ss MM/DD/YYYY
XCount	Report number of times that ATS has transferred.		#
Serial	Report the unit's serial number.		<device serial="" string=""></device>
DevID	Report the unit's device ID.		<device id="" string=""></device>
Prefer	Report the preferred source.		S1 or S2
Sens	Report the sensitivity.		hi or low
Mode	Report the operation mode.		Initialization Diagnosis Off S1 S2 Safe Fault
Vout	Report the output voltage.		#.#
lout	Report the output current.		#.#
Vs1	Report the primary voltage.		#.#
Vs2	Report the secondary voltage.		#.#
Fs1	Report the primary frequency.		#.#
Fs2	Report the secondary frequency.		#.#
Vtp2s	Report the primary to secondary trip voltage.		#.#
Vts2p	Report the secondary to primary trip voltage.		#.#
Vbp2s	Report the primary to secondary brownout voltage.		#.#
Vbs2p	Report the secondary to primary brownout voltage.		#.#
Tdp2s	Report the recover time of transfer from primary to secondary.		#.#
Tds2p	Report the recover time of transfer from secondary to primary.		#.#
Mvs1	Report the max voltage of comparing cycles for primary AC blackout.		#.#
Mvs2	Report the max voltage of comparing cycles for secondary AC blackout.		#.#
Mts1	Report the max time of comparing cycles for primary AC blackout.		#.#
Mts2	Report the max time of comparing cycles for secondary AC blackout.		#.#

8.6 ATS Command Settings

8.6 ATS Command Settings

Command	Description	Parameter	Response
Log	Report the event code and time of prior transfers.	1 ~ 10	hh:mm:ss MM/DD/YYYY 0x#
Tprev[19]	Report the time of prior transfer/event. Tprev1 is the most recent time.		hh:mm:ss MM/DD/YYYY
Event[19]	Report the event code for prior transfer. Event1 is the most recent event.		0x#
ClearLog	Clear event log.		
SetTime	Set the present time.	hh:mm:ss [MM/DD/YYYY]	
SetDate	Set the present date.	MM/DD/YYYY	
SetPrefer	Set the preferred source.	1 or 2	
SetDevID	Set the unit device ID.	<20 characters> alphanumeric only	
SetVtp2s	Set the primary to secondary trip voltage.	165.0 ~ 175.0	
SetVts2p	Set the secondary to primary trip voltage.	165.0 ~ 175.0	
SetVbp2s	Set the primary to secondary brownout voltage.	180.0 ~ 264.0	
SetVbs2p	Set the secondary to primary brownout voltage.	180.0 ~ 264.0	
SetTdp2s	Set the recover time of transfer from primary to secondary.	12.0 ~ 1800.0	
SetTds2p	Set the recover time of transfer from secondary to primary.	12.0 ~ 1800.0	
SetMvs1	Set the max voltage of comparing cycles for primary AC blackout.	30 ~ 50	
SetMvs2	Set the max voltage of comparing cycles for secondary AC blackout.	30 ~ 50	
SetMts1	Set the max time of comparing cycles for primary AC blackout.	2.0 ~ 4.0	
SetMts2	Set the max time of comparing cycles for secondary AC blackout.	2.0 ~ 4.0	

8.7 Key Generation for SSH

• For Linux

- 1. Please download and install OpenSSH from http://www.openssh.org.
- 2. Launch shell and enter the following command to create your own keys. Please ignore it when prompted to provide passphrase. DSA Key:ssh-keygen –t dsa RSA Key:ssh-keygen –t rsa
- 3. Upload DSA and RSA key files on the web.

• For Windows

- 1. Please download and install PuTTY from http://www.putty.org.
- 2. Run puttygen.exe from the installed directory.
- 3. Select SSH-2 RSA from the Parameters area and click $Key \rightarrow Generate \ key \ pair$ to generate an RSA key.
- 4. Select **Conversions** \rightarrow **Export OpenSSH Key** and assign a file name to the RSA key. Please ignore it when prompted to provide key passphrase.
- **5.** Select **SSH-2 DSA** from the Parameters area and select $Key \rightarrow Generate key pair$ to generate a DSA key.
- **6.** Select **Export OpenSSH Key** from **Conversions** and assign a file name to the DSA key. Please ignore it when prompted to provide key passphrase.
- 7. Upload the DSA and RSA key files to the web.

😴 PuTTY Key Genera	tor 🔀	
<u>File K</u> ey Con <u>v</u> ersions	Help	
Key <u>Public key for pasting i</u> Issh-dss AAAAB3NzaC1kc3M4 HZB203Gr6GiwyxOJB Nkyc/V1G110s5Wd24 AVAJArkHQIUd+xafml	nto OpenSSH authorized_keys file: AACAW025GiHu9L+p8DwFlHHIn8HMkLDgV7q4yg1R102T5Ei MUGLY90S200yDMYJsSeL3Wvlpuj4ahlgAKs8E7X4F02hWJ1 fwa/GP06h22inJ8R78wg8Si/b0Y0KC0BJawX1e2YCuLsAAA DhvoSw1FsRx9AAAAg8R5s/gzs0oQCVX4MFIN6vKFzeHyMC2	 Please copy the context of public key here and paste it into a key file.
Key fingerprint:	ssh-dss 1023 93:da:30:2a:bf:4e:ac:e3:d5:28:ca:9e:d9:52:eb:89	
Key <u>c</u> omment:	dsa-key-20110707	
Key p <u>a</u> ssphrase:		
Confirm passphrase:		
Actions Generate a public/priv Load an existing privat Save the generated ke	ate key pair <u>G</u> enerate e key file <u>Load</u> sy Save p <u>u</u> blic key <u>S</u> ave private key	
Parameters Type of key to generat O SSH- <u>1</u> (RSA) Number of <u>b</u> its in a ger	e: O SSH-2 <u>B</u> SA O SSH-2 <u>D</u> SA merated key: 1024	

IPv6 for ATS-00_EN