

VTS Series Firmware Version 1.8.0 Release Notes

November 28, 2005

Copyright (c) 1998-2005, Sena Technologies, Inc.

INTRODUCTION

=====

These release notes describe new features added and bugs fixed since the firmware V1.7.0.1 release.

ENHANCEMENTS

=====

- + Added the virtual KVM support.
- + Added the security profiles(Standard, custom, secure).
- + Added the ability to configure the web port (default port : http=80, https=443)
- + Added an option to disable reverse DNS lookup.
- + Added an option to specify a system log file name.
- + Added the "Radius down - Local" authentication for CLI access.
- + Added the time zone list.
- + Added the email notifications for the traps on the main SNMP page configurable per trap
- + Increased the max number of outlets per port. (up to 8)
- + Added a drop down list for UDP, TCP and ICMP protocol in IP Filtering configuration.
- + Added [View] button to display system logs or port logs on the pop-up window.
- + Added the checkbox to enable/disable the NMS configuration on the SNMP configuration page.
- + WEP key string for wireless PC card is stored as an encrypted form.
- + HTTP will be redirected to HTTPS in default configuration.
- + Default /etc/ldapauth file is changed to restrict searchbase only to user.

BUG FIXES

=====

- Fixed the problem in using SSH public-key authentication to the CLI.
- Fixed the problem in setting power permission of added power outlets through the editconf.

- Fixed the problem in disabling the power controller email alert and remote port email alert automatically if SMTP configuration was disabled
- Fixed the problem in applying IP mode of eth0 and eth1 both as static.
- Fixed the problem in changing configuration of SNMP daemon via NMS.
- Fixed the problem in applying 'Set factory default a port' on a remote port.
- Fixed the problem in accessing slave unit from master unit via Web UI.
(Incorrect parameter initialization is caused in some cases.)
- Fixed the problem in sending a log to Syslog server if there is a "<" character in the log message.
- Fixed the problem in sending a port login trap if the protocol of the port is SSH and the port is accessed from the port access menu.
- Fixed the problem in accessing a remote port after resetting it.
- Fixed the problem in sending port login trap/email for TCP port with none authentication.
- Fixed the problems related with the power controller.
- Fixed the problem with setting more than two serial ports as factory default in the editconf.
- Fix the problem in displaying the log after reducing the log file size.
- Fixed the problem with RawTCP delimiter option.

NOTES

=====

* "kinit"(KEBEROS authentication client) and "pppd"(PPP daemon for PPPOE mode) are removed from firmware image due to the space problem.

But you can use the feature if you place them on user space.(/usr2) Please contact the Sena Support if you need these binaries.

KNOWN BUGS

=====

* None.

VTS Series Firmware Version 1.8.0 Release Notes

November 28, 2005

Copyright (c) 1998-2005, Sena Technologies, Inc.

ENHANCEMENTS

=====

+ Added the virtual KVM support.

콘솔 서버 모드의 시리얼 포트에 연결된 호스트나 리모트 포트에 연결되는 원격 호스트가 KVM 기능을 제공할 경우, VTS는 사용자가 KVM 클라이언트 프로그램을 이용하여 호스트에 연결할 수 있는 수단을 제공합니다(Manual Page 64)

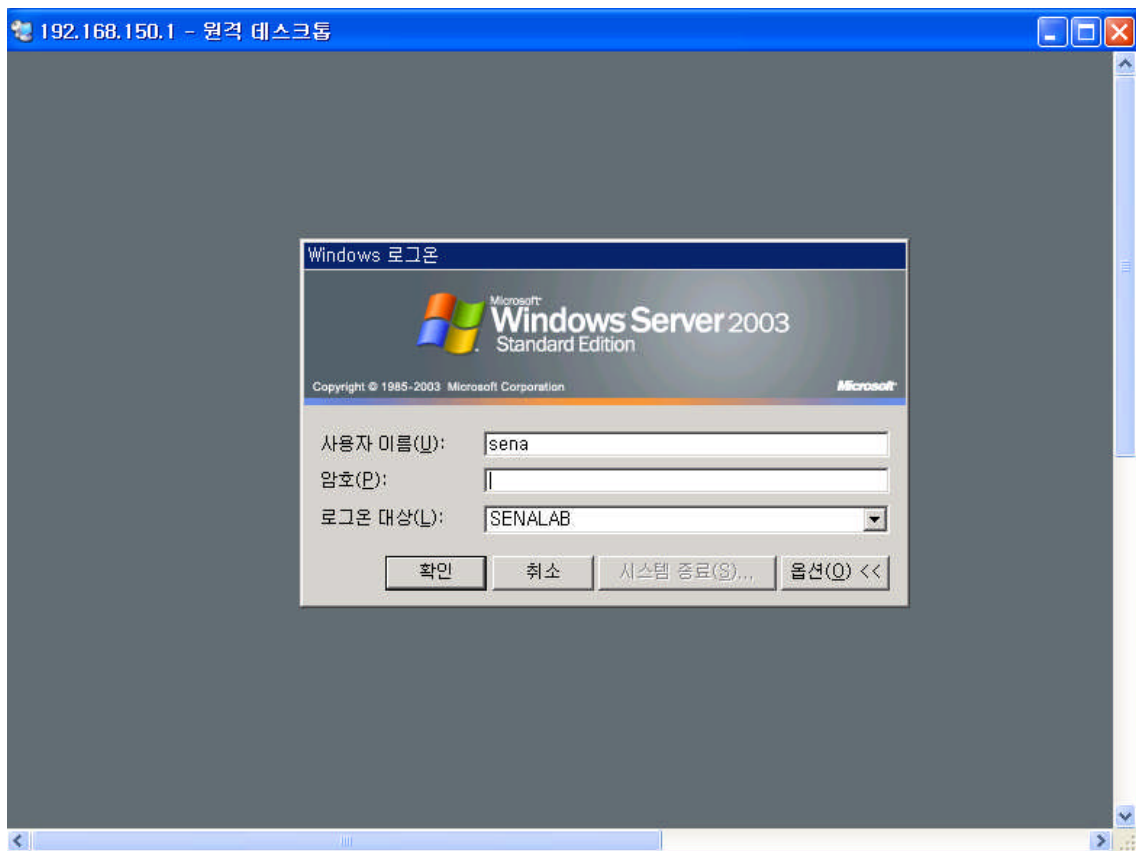
- Windows remote desktop connection, VNC, Radmin, Xmanager 및 User defined 지원합니다.

The screenshot shows a web-based configuration interface for a serial port. The title bar reads "Serial port configuration - 1 : Port Title #1" and includes a "Move to" dropdown menu. The interface is organized into several sections:

- Enable/Disable this port**
- Port title**
- Apply all ports settings**
- Host mode configuration**
- Virtual KVM configuration** (highlighted in purple):
 - Virtual KVM connection :
 - Automatic IP detection :
 - IP address :
 - Client program :
 - Socket/Screen number for VNC connection : vncviewer \$IP\$:
 - Client program path :
- Save to flash** **Save & apply** **Cancel**
- Serial port parameters**
- Port logging**
- Port IP filtering**
- Authentication**
- User access control**
- Alert configuration**

Serial port connection						
Port access menu connection						
Port access menu connection						
Individual port connection						
P	C	M	Port#	Title	# of User	Comments
			1	Port Title #1	0	< Not used >
			2	Port Title #2	0	< Not used >
			3	Port Title #3	0	< Not used >
			4	Port Title #4	0	< Not used >

- Serial Port Connection 메뉴에 KVM에 접속할 수 있는 아이콘이 나타납니다.



+ Added the security profiles(Standard, custom, secure).

보안 수준을 설정할 수 있는 기능이 추가되었습니다. Custom으로 설정되면 각각의 보안 항목을 사용자가 지정할 수 있습니다. Standard 또는 Secure로 설정되면 해당 보안 수준에 해당하는 값으로 자동 설정 됩니다. Factory default로 재설정하면 보안 수준은 Standard로 설정됩니다. 보안 수준별 보안 항목의 값은 다음과 같습니다.(Manual Page 132)

Security Item	Custom	Standard	Secure
SNMP (get/set)	Configurable	Disable	Disable
Discovery (MANAGER)	Configurable	Enable	Disable

Telnet	Configurable	Disable	Disable
SSH	Configurable	Enable	Enable
SSH V1	Configurable	Disable	Disable
HTTP	Configurable	Redirect to HTTPS	Disable
HTTPS	Configurable	Enable	Enable
All ports	Configurable	Any	Any
Set all ports to	Configurable	Any	SSH
Stealth mode	Configurable	Disable	Enable

+ Added the ability to configure the web port (default port : http=80, https=443)

HTTP 및 HTTPS 의 포트를 설정할 수 있는 기능이 추가되었습니다.(Manual Page 39)

Web server configuration

Web page refresh rate for statistics data display (0-1800, 0 for no refresh) : seconds

Login timeout (0-1440, 0 for unlimited) : minutes

Authentication method :

Eliminate root access :

Serial ports count on connection page (16-90) :

Web applet option :

HTTP port :

HTTPS port :

+ Added an option to disable reverse DNS lookup.

Reverse DNS lookup 을 설정할 수 있는 기능이 추가되었습니다. (Manual Page 42)

Reverse DNS lookup을 Enable로 설정하면, VTS는 xxx.xxx.xxx.xxx 형식의 IP 주소를 도메인 이름으로 변경하여 표시합니다. 단, 호스트가 Name Server 에 등록되어 있어야 합니다.

TCP service configuration

TCP keepalive configuration

TCP keepalive time(sec) :

TCP keepalive probes(times) :

TCP keepalive intervals(sec) :

Reverse DNS lookup configuration

Reverse DNS lookup :

+ Added an option to specify a system log file name.

사용자가 System Log 의 저장 파일명을 지정할 수 있는 기능이 추가되었습니다. 기본값은 logs 입니다.(Manual page 120)

The screenshot shows a configuration window titled "System logging". It contains several settings:

- System logging : Enable
- System log storage location : Memory
- System log to SYSLOG server : Disable
- System log buffer size (KB, 300 max.) : 50
- System log filename : logs (highlighted with a red box)
- Automatic backup on mounting : Enable
- Send system log by Email : Disable
- Number of log messages to send a mail (1-100) : 5
- System log recipient's mail address : (empty field)

At the bottom, there are three buttons: "Save to flash", "Save & apply", and "Cancel".

+ Added the "Radius down - Local" authentication for CLI access.

CLI 접속시 "Radius down-Local" 인증을 지원하는 기능이 추가되었습니다.(Manual Page 154)

+ Added the time zone list.

Date & Time 설정시 Time Zone 리스트를 지원합니다.

사용자는 "Select [Standard Time] and [Daylight saving time] from list" 버튼을 누르면 지역을 선택할 수 있는 창이 나타납니다. 사용자는 대륙,국가 와 지역을 선택하면 자동으로 Time Zone 이 설정됩니다.(Manual Page 129)

Date and time

Use NTP :

NTP server (0.0.0.0 for Auto) :

Date [mm/dd/yyyy] :

Time [hh:mm:ss] :

Select [Standard time] and [Daylight saving time] from list

[Standard time]

Timezone :

Time offset from UTC (UTC + [x.x]hours) :

[Daylight saving time]

Enable/Disable daylight saving time :

Daylight saving timezone :

Time offset from UTC (UTC + [x.x]hours) :

Start date [mm/dd] :

Start time [hh:mm:ss] :

End date [mm/dd] :

End time [hh:mm:ss] :

Select timezone from list

Continent :

Country :

District :

Timezone name :

[Standard time]

Timezone :

Time offset from UTC (UTC + [x.x]hours) :

[Daylight saving time]

Daylight saving time :

Timezone :

Time offset from UTC (UTC + [x.x]hours) :

Start date [mm/dd] :

Start time [hh:mm:ss] :

End date [mm/dd] :

End time [hh:mm:ss] :

+ Added the email notifications for the traps on the main SNMP page configurable per trap

SNMP Page 에서 Trap 에 대한 Email 전송을 설정할 수 있도록 추가되었습니다.(Manual page 28)

SNMP configuration

MIB-II system objects

sysContact : administrator

sysName : VTS4800

sysLocation : my location

sysService : "7"

Options	Trap	Email
EnablePowerOnTrap/Email :	No	No
EnableAuthenTrap/Email :	No	No
EnableLinkUpTrap/Email :	No	No
EnableLinkDownTrap/Email :	No	No
EnableLoginTrap/Email :	No	No

Trap event recipient's email address :

+ Increased the max number of outlets per port. (up to 8)

하나의 포트에 지정할 수 있는 Power Outlet 의 수를 최대 8개까지 지정할 수 있도록 추가 되었습니다.(Manual Page 83)

Serial port configuration - 1 : Port Title #1

--- Move to ---

- Enable/Disable this port
- Port title
- Apply all ports settings
- Host mode configuration
- Virtual KVM configuration
- Serial port parameters
- Port logging
- Port IP filtering
- Authentication
- User access control
- Alert configuration

Power control configuration

Port#	Manufacturer	Title	Outlet	Action
48	SENA PM	SENA PM on Port 48	1	Remove
		SENA PM on Port 48	2	Add

+ Added a drop down list for UDP, TCP and ICMP protocol in IP Filtering configuration.

IP filtering 에서 프로토콜에 대해 지정할 수 있도록 추가되었습니다.

IP filtering							
#	Interface	Option	IP address/Mask	Protocol	Port	Chain rule	Action
1	all	Normal	0.0.0.0/0.0.0.0	TCP	23	DROP	Remove
2	all	Normal	0.0.0.0/0.0.0.0	TCP	80	ACCEPT	Remove
3	all	Normal	0.0.0.0/0.0.0.0	TCP	22	ACCEPT	Remove
4	all	Normal	0.0.0.0/0.0.0.0	TCP	443	ACCEPT	Remove
	all	Normal		TCP		ACCEPT	Add

+ Added [View] button to display system logs or port logs on the pop-up window.

System Log 및 Port Log 화면에서 [View]버튼이 추가되어 [View] 버튼 클릭 시 새로운 창이 나타나서 log를 볼 수 있는 기능이 추가되었습니다.(Manual page

System logging	
System logging :	Enable
System log storage location :	Memory
System log to SYSLOG server :	Disable
System log buffer size (KB, 300 max.) :	50
System log filename :	logs
Automatic backup on mounting :	Enable
Send system log by Email :	Disable
Number of log messages to send a mail (1-100) :	5
System log recipient's mail address :	
<input type="button" value="Save to flash"/> <input type="button" value="Save & apply"/> <input type="button" value="Cancel"/>	
System log : <pre> 05-27-2006 11:48:45 > Boot up System Start 05-27-2006 11:48:45 > Start with Static IP by 192.168.18.248 05-27-2006 11:49:04 > Web - LOCAL authentication for 'admin' failed. 05-27-2006 11:49:07 > Web - LOCAL authentication for 'admin' failed. 05-27-2006 11:49:10 > Web - LOCAL authentication for 'admin' passed. 05-27-2006 11:50:10 > User administration configuration changed. 05-27-2006 11:50:18 > Configuration changes are saved. 05-27-2006 11:50:22 > Configuration changes are applied 05-27-2006 11:55:35 > Web - LOCAL authentication for 'admin' passed. 05-27-2006 11:58:08 > Web - LOCAL authentication for 'admin' failed. 05-27-2006 11:58:11 > Web - LOCAL authentication for 'admin' passed. 05-27-2006 12:13:04 > Port #1 LOCAL authentication for 'admin' passed. </pre>	
<input type="button" value="Clear"/> <input type="button" value="Refresh"/> <input type="button" value="View"/>	

+ Added the checkbox to enable/disable the NMS configuration on the SNMP configuration page.

SNMP configuration 에서 Check box를 통해 Enable / Disale 할 수 있도록 추가되었습니다.

The screenshot shows two configuration sections. The first section, 'Access control settings (NMS)', contains a table with columns for IP Address, Community, and Permission. The first row is checked and shows IP 192.168.100.101, Community 'senavts', and Permission 'Read only'. The other three rows are unchecked and show IP 0.0.0.0, Community 'public', and Permission 'Read only'. The second section, 'Trap receiver settings', contains a table with columns for IP Address, Community, and Version. The first row is checked and shows IP 0.0.0.0, Community 'public', and Version 'v1'. The other three rows are unchecked and show IP 0.0.0.0, Community 'public', and Version 'v1'.

Access control settings (NMS)			
	IP Address	Community	Permission
<input checked="" type="checkbox"/>	192.168.100.101	senavts	Read only
<input type="checkbox"/>	0.0.0.0	public	Read only
<input type="checkbox"/>	0.0.0.0	public	Read only
<input type="checkbox"/>	0.0.0.0	public	Read only

Trap receiver settings			
	IP Address	Community	Version
<input checked="" type="checkbox"/>	0.0.0.0	public	v1
<input type="checkbox"/>	0.0.0.0	public	v1
<input type="checkbox"/>	0.0.0.0	public	v1
<input type="checkbox"/>	0.0.0.0	public	v1

+ WEP key string for wireless PC card is stored as an encrypted form.

PCMCIA 무선 랜카드 사용 시 WEP key 설정을 저장할 때 암호화하여 저장하도록 수정하였습니다.

+ HTTP will be redirected to HTTPS in default configuration.

Secure ptofile 에서 HTTP 의 동작을 “Redirect to HTTPS”를 지정했을 경우 사용자가 HTTP로 VTS 에 접속할 때 아래 화면 후 약 5초 후 자동으로 HTTPS로 접속합니다.(Manual Page 134)



+ Default /etc/ldapauth file is changed to restrict searchbase only to user.

LDAP Authentication 시 기존에는 Group을 읽어 처리했으나 1.8.0 부터는 User 정보를 읽어 처리할 수 있도록 수정되었습니다.