# Vantage Report

Centralized Logging & Reporting Analyzer

## **Support Notes**

Version 2.2 June. 2005



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### FAQ

Product FAQ

#### What is Vantage Report (VRPT) ?

Vantage Report (VRPT), a web-based centralized reporting system for quickly and conveniently collecting and analyzing a distributed network, provides system administrator a simple and direct method of monitoring multiple ZyWALL Internet security and IDP appliances. VRPT 2.2 supports Bandwidth usage/Service/Web Filter/Attack/Intrusion/Authentication reports. Administrator can generate a report by online-query or schedule report daily/weekly.

#### Which operating systems are supported by VRPT Server ?

Windows 2000/XP now. Linux is not available for this version.

#### Which reports are supported by VRPT ?

VRPT can analyze and generate reports based on syslog from ZyWALL series and ZyWALL IDP10. There are two types of logs from devices: Event log and Traffic log. Event logs include many kinds of message which are related to the events on ZyWALL & IDP10. For example: DoS/DDoS attack, Web Access Block, Network Intrusion and so on. The other type of log, traffic log, is for statistic report about traffic passing through the device. When a session is initiated, ZyWALL, starts monitoring the traffic usage and send a log to VRPT when the session is terminated. Traffic log contains some information like source/destination/protocol/traffic load and so on. VRPT can generate Bandwidth/Service report based on the information.

#### Which types of devices are by VRPT ?

ZyWALL IDP10 with firmware 2.00

ZyWALL 2/10W with firmware 3.62

ZyWALL 5 with firmware 3.62 and later

ZyWALL 35/70 with firmware 3.63 and later

Therefore, no Bandwidth/Service report for ZyWALL 2/10W due to traffic log support.

#### How many devices are supported by VRPT ?

There is not limitation on the device number. However, we recommend less than 25 units according to estimated logs and performance.

#### Which components are included by VRPT ?

VRPT includes a Kiwi syslog receiver for collecting device log, MySQL database for storing the log for further analysis, an analysis/reporting module to generate report according to user' s request and schedule setting, tomcat web server to provide user-friendly interface.

#### How to install VRPT server on the PC ?

Please refer the hardware/software requirement and quick start guide (QSG) for installation procedure. Installation could be a very simple and straight forward. Just to remind that VRPT installation wizard will install KiWi syslog/MySQL/Tomcat on your computer. Make sure these applications are not running before installation.

#### How to access VRPT ?

Once you install VRPT server, you can access VRPT by browser. Currently we only support IE 6.0 and later. Please type <u>http://<VRPT Server IP>:8080/vrpt</u> in the URL field. Press enter and a pop-up window will be prompt for login. If you can not see the window, please check your browser setting and make sure pop-up is not blocked.

ZyXEL	<b>VANTAGE</b> Report	2.2	
	User Name root Password •••••		
_			

Default username/password is root/root.

#### How long will raw data (device logs) be stored in VRPT database ?

Under System>>General Config, user can decide Log store days. VRPT will keep only those logs which are within the value.

General Config					
erval					
10	seconds	(5-60)			
30	seconds	(30-1800)			
7	days	(1-31)			
PIE 💌					
	Gener erval 10 30 7 PIE 💌	General Config terval 10 seconds 30 seconds 7 days			

Old logs will be purged from system and saved as CSV file. These CSV files will be located under <VRPT installation directory> (default C:\Program Files\ZyXEL\Vantage Report) \backup. User can read the CSV file by Microsoft Excel. The naming will be something like auto\_20050317000003.csv. It means the log file is formed on 03/17/2005 at 00:00:03.

Raw data (CSV files) can be imported to VRPT database through System>>CSV Import.

antage Rep	ort 2.2 - Microsoft	Internet Explore:	r						
DEVICE	BANDWIDTH	SERVICE W	VEB FILTER ATTACK	INTRUSION	AUTHENTICATION	VIEWER	SYSTEM USER	REPORT	
		Syste	em>>CSV Import				General Config Server Config Schedule Data Maintain		
				C	SV Import		CSV Import		
							About		
			File Name:			瀏覽			
							Apply		

## **Application Notes**

#### **General Application Notes**

#### Adding device to device maintenance list of VRPT

VRPT 2.2 supports multiple devices. User can decide to generate reports for each single device or all devices. First of all, the devices must be added to device maintenance list of VRPT Device>>Device Maintenance.

BANDWIDTH	SERVICE	WEB FILTER	ATTACK INTRUSIO	ON AUTHENTICATION	VIEWER SYSTEM	USER REPORT	
	Device	>>Device Mai	ntenance			2	
	No		Device Type	Device Name	Device IP	Device MAC	
	1		ZyWVALL 35	ZW35 Chiron	192.168.35.1	00A0C5CB84EB	
	2		ZyWall IDP 10	IDP10 Chiron	192.168.1.10	0060e002d7df	
	3		ZWVall IDP 10	IDP10 TEST	172.22.2.10	0060e002d7d0	
	4		ZyWALL 5	ZW5_VRPT	192.168.1.1	00A0C59909D8	
	5		ZWVALL 35	ZW35_VRPT	192.168.35.254	00a0c5003010	
	6		ZyWALL 2	ZW2 Kodak	10.59.1.34	00a0c5550e90	
	7		ZWVALL 70	ZWVALL70	10.59.1.47	00A0C57975EB	
	8		ZyWall IDP 10	IDP10 Chiron 2	192.168.35.10	00a0c5b7b001	

Logs from these devices will be analyzed and imported to VRPT database. If the device doesn't exist in this list, its log will be dropped by VRPT. (User still can see the log on Kiwi).

If user needs to generate a report on a specific device, please click on "Settings" on the related report. User can select the device according to its Type and Name. Only those devices in device maintenance will be shown in the drop-down list. Note that the LAN MAC address must be correct. User can check the devID attribute in Kiwi syslog.



#### How to forward device log to VRPT for analysis and report ?

VRPT analyzes the syslogs from device. Therefore, user has to configure VRPT server as the Syslog server on device.

(1) From GUI (eWC)

For ZyWALL, enter LOGS>>Log Settings to enable the Syslog logging and key in the server name or the IP address of VRPT server.

ZyXEL	Active	
	Syslog Server 0.0.0.0	(Server Name or IP Address)
НОМЕ	Log Facility Local 1 💌	
NETWORK LAN	Active Log and Alert	
WIRELESS LAN	Log	Send Immediate Alert
DMZ	System Maintenance	System Errors
an and an inclusion of the	System Errors	Access Control
SECURITY	Access Control	Blocked Web Sites
FIREWALL CONTENT FILTER	Asymmetrical Routes	Blocked Java etc.
VPN	Multicasts / Broadcasts	Attacks
CERTIFICATES	TCP Reset	IPSec
AUTH SERVER	Packet Filter	
ADVANCED		
NAT STATIC POLITE		
POLICY ROUTE	Remote Management	
BW MGMT	Call Record	
DNS PEMOTE MGMT	PPP	
UPnP	UPnP	
	Forward Web Sites	
LOGS	Blocked Web Sites	
MAINTENANCE	Blocked Java etc.	
	Attacks	
LOGOUT	Status: Ready	

The setting of Log Facility doesn't matter for VRPT report.

For IDP10, enter REPORT>>Syslog and key in the server name or the IP address of VRPT server.

🎒 ZyXEL ZyWALL IDP	2 10 Internet Security Appliance - Microsoft Internet Explorer	
檔案(E) 編輯(E) 核	僉視(Y) 我的最愛(A) 工具(I) 説明(H)	
⇔上一頁 → → → @	③	
網址(D) 🙋 http://192.10	168.35.10/login.html	▼ (2)移至
ZyXEL		
HOME	REPORT E-Mail Syslog	
GENERAL INTERFACE REMOTE MGMT	Syslog Logging	
IDP	Active	
LOG & REPORT	Syslog Server 192.168.1.41	(Server Name or IP Address)
LOGS REPORT ALARM	Log Facility Local 1	
MAINTENANCE	I raffic Logging	
LOGOUT	□ Send Raw Traffic Statistics to	Syslog Server for Analysis
	Аррју	Reset

(2) From SMT (Telnet/Console) menu24.3.2 (only for ZyWALL, not IDP10)

Menu 24.3.2 - System Maintenance - Syslog Logging

Syslog:

Active= Yes

Syslog Server IP Address= 172.25.21.77

Log Facility= Local 1

#### How to enable traffic log feature on ZyWALL ?

Note that traffic log is only available for ZyWALL 5/35/70 with firmware 3.63 and later.

(1) From GUI (eWC)

Enter Logs>>Reports and select "Send Raw Traffic Statistics to Syslog Server for Analysis"

LOGS	
View Log Log Settings Reports	
Setup	
Collect Statistics	
Send Raw Traffic Statistics to Syslog Server for Analysis	
Apply	
Statistics Report	
Interface LAN 💌	
Report Type Web Site Hits 💌	Refresh Flush
# Web Site	Hits

(2) From SMT (Telnet/Console) menu 24.3.2

Enter its SMT Menu24.8 and type:

sys log load sys log cat traffic 1

sys log save

#### **VRPT Server Setup**

Setup VRPT could be very easy. Take following steps to get reports on VRPT.

- 1. System administrator configure ZywALL/IDP10 to send syslog to VRPT.
- 2. User connects to VRPT with IE browser and add devices into list.
- 3. Syslog is received and stored in VRPT DB.
- 4. User query for report
- 5. VRPT server generates the report accordingly.



configure ZywALL/IDP10 to send syslog to VRPT.



Add devices into list.



If device logs are received by Kiwi but not imported into VRPT database (not feasible in Log Monitor), check if the device is registered under device maintenance list. Note that the LAN MAC address must be correct. User can check the devID attribute in Kiwi syslog.

#### Advanced Application Notes

#### **Using Schedule Report**

VRPT provides support for emailing and archiving daily and weekly reports. User can create schedule report (daily/weekly). VRPT will generate the report and send to receiver automatically.



Go to System>>Schedule for adding schedule reports. There are two kinds of schedule reports (Daily & Weekly) available.



Take daily report for example. Add daily scheduled report", e-mail address, subject, body. And you can

decide whether you want to save report to VRPT server. Suggest select "Include all data in a single report", then in the mail you get in future, all statistics are included in a single PDF file, easy to read. Otherwise, each item in report list will form a PDF file.

	Add Daily S	cheduled Report	
Destination email address (semicolon seperated): john	.yan@zyxel.cn	Email subject:	test for vantage
🔽 Email attached files		Email body:	can you see me ??
Save report to VRPT server			
Save directory: 2.1/ZYCNM_DEPLOY_	(root/Vantage-CNM- BED/vrpt/schedule/	test-26/11/2004	
Zip Emailed/archived reports	s into a single file		
Include all data in a single re	eport	Time to submit:	23 💌 59 💌
	Re	port List	
🔽 Bandwidth Summary	Top Users	of Bandwidth	Service Summary
🗖 Web Summary	Top Sites of	of Web Usage	Top Users of Web Usage
Web Filter Summary	Top Sites of	of Web Filter	Top Users of Web Filter
FTP Summary	Top Users	of FTP Usage	🗖 Mail Summary
Top Users of Mail Usage	🗖 VPN Sumn	nary	Top Users of VPN Usage
F Attack Summary	Attack by C	ategory	Attack by Source
Device Errors	🗖 Successfu	I Login	🗖 Failed Login

If you want to add a daily report, do not fill in 1 day for log storing days.

Because the daily report only reports log statistics yesterday. That is to say the mail you get each time you've set will show nothing if you set "log store day=1". The date in the PDF file is the day before. Attention, here now, today is 2004-11-26, but as you've seen in VRPT, it is 2004-11-25.

If you want the current statistics, you could go to "report>>one day report", choose the date and apply. Or go to "Report>> One day report" to report the statistics of that day. Then you'll get the report of that day till that moment. Click "Submit Now" and the report will be generated and forwarded immediately.

Syste	m>>Scho	edule		2
Add Ac	ditional 9	Scheduled Reports		
	Ad	Add Daily Repo	urt	
	Ad	Add Weekly Re	port	
Summ	ary of Sc	heduled Reports		
	Dele	ste Submit Now	Submit the report now, will not affect future scheduled reports	
No.		To Email Address	EMail Subject	Schedule
1	•	john.yan@zyxel.cn	test for vantage	Daily



Here, the title "From" is just the settings in "System>>server config", Mail Sender.

SMTP	Server		
	IP Address Or Domain Name:	mail.zyxel.cn	
	User Name:	John.Yan@zyxel.cn	
	Password:	•••••	
	Send Email:	John	

#### How to check bandwidth usage ?

One day the employees complain the network of the company is so bad that they even can not send and receive the E-mail properly. Then the administrator will check the Bandwidth>>Top users of the VRPT, he finds that



It shows the users 192.168.8.166 uses lots of the bandwidth of the company. He is downloading some big file through BT. It will occupy most of the network resource of the company, which may decrease the

productivity.

#### How to check Intrusion events ?

VRPT supports intrusion report based on the log from ZyWALL IDP10. It provides reports based on Intrusion Source (attacker), Destination (victim), type, signature and severity. Following is an example to illustrate that an internal host is conducting network treat (e.g. infected by Trojan) and passing through IDP10.



Step 1. Configure VRPT Server as the Syslog Server (Report>>Syslog) of IDP10



Step 2. When IDP10 detects intrusion events, it will generate syslog and forward to VRPT Server.



Step 3. Through the Report, system administrator can easily find out the intrusion event and the source and if the threat of network.



User can find drill-down report for Intrusion. Drill-down report allows user to view the intrusion event by querying Intrusion signature hit by attacker.



For example:

- 1. Query by Top Intrusion Signature (Intrusion>>Top Intrusion Signature)
- 2. VRPT will generate top 10 Intrusion type according to Intrusion Signature
- 3. Select the specific type in the table, an advanced query can be applied to the selected intrusion event
- 4. The advanced query can be Log Viewer/Top Source/Top Destination
- 5. If top source is selected, the next window will show you the hosts who conducts most of the intrusion type.

## **Trouble Shooting**

#### What to check if you can not access the GUI of VRPT Server?

If the VRPT is behind the NAT/FireWall, please make sure the Port 514 is forwarded for the VRPT Server.

#### Why can't I get the PIE chart, even no data in monitor?

- a. Currently, F/W 3.63(WM.0) or newer supports traffic log.
- b. Confirm the time settings on both sides are the same. The same time zone.
- c. Go to ZyNOS menu 24.3.2, enable the syslog function and set the IP address. Save and quit.