

Auto-Configuration Server User's Guide

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Version History

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1.0	November 2007	Carrie Ni	Version 1.0
1.1	April 2008	Carrie Ni	Global firmware upgrade modified Auto configuration and dynamic service provision
1.2	August 2008	Hoham Liu	UI description modified Interface screenshots recaptured

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Chapter 1 Introduction

VigorACS is a software which provides centralized device management for TR-069 based CPEs such as broadband gateway, XDSL router, VoIP gateway and wireless AP. VigorACS monitor and display status of devices, or perform scheduling tasks such as firmware upgrade, configuration backup/restore parameter profile for numerous CPE devices. It is easy to use through intuitive Web-based GUI with security management. VigorACS is capable of different kinds of platform e.g., Windows, Linux, Sun Solaris and so on.

1.1 Main Features and Benefit

- Manage all kinds of devices complied with TR-069 specification such as broadband gateway, XDSL router/modem, VoIP phone, wireless AP and Set-Top Box.
- > VigorACS server can be installed in Windows, Linux and Sun Solaris.
- Intuitive Web-based GUI can be executed on all browsers like IE, Firefox, Mozilla and so on.
- Support scheduling firmware upgrade, configuration backup/restore and parameter profile deployment.
- Support auto-discovery to survey all TR-069 devices.
- Provide device inform management.
- Support security management

1.2 System Architecture

The following figure shows an overview for the application between VigorACS and CPE devices. With TR-069 protocol, VigorACS can communicate and manage devices easily.



1.3 Web Service

Web service is a software system identified by a URI, whose public interfaces and bindings are defined and described using XML. Its definition can be discovered by other software systems. These systems may then interact with the Web service in a manner prescribed by its definition, using XML based messages conveyed by internet protocols.

The basis for Web Services contains: XML, WSDL (Web Services Description Language), SOAP (Simple Object Access Protocol), UDDI(Universal Description, Discovery and Integration). The procedure for the structure of bottom layer: transform Web Service information into XML file format, use WSDL statement to describe the objects for service. The remote end can get required information through such description. It carries out transformation job to search or register from UDDI by means of SOAP communication bottom layer.

For the designers of Java program: you can write java program to control VigorACS. Also, VigorACS will offer some API for you to write and call it. For example, you can get all the connected CPE devices controlled VigorACS through web service.

Corresponding files are placed in - WebServices_TR069API.zip

The documentation for web services api is placed in - WebServices_TR069API/doc/

Sample program is placed in -WebServices_TR069API/example/src/tw/com/draytek/acs/test/TestMain.java

For the designers with other program language: you can define WSDL to control VigorACS through SOAP(Simple Object Access Protocol)

Chapter 2 Installation

Please follow the procedure listed below to install VigorACS. The installation for different platforms might be different.

2.1 For Windows 2000 or XP

There are three programs needed to be installed for operating VigorACS.

2.1.1 Installation for Java

1. Locate ACS\Software\jdk-1_5_0_07-windows-i586-p.exe from CD and double click on it to execute the installation.

Version 5.0	🏶 Sun	
JAVA [™] 2 Platform Standard Edition		
Java		
Java		
	InstallShield Wize	ard
	InstallShiel	elopment Kit 5.0 Update 7 Setup is preparing the Id Wizard, which will guide you through the program cess. Please wait.
	(****	Cancel

2. A license agreement dialog box will appear. Choose "I accept the ..." and click Next.

🛃 J2SE Development Kit 5.0 Update 7 - License	×
License Agreement Please read the following license agreement carefully.	un.
Sun Microsystems, Inc. Binary Code License Agreement for the JAVA 2 PLATFORM STANDARD EDITION DEVELOPMENT KIT 5.0 SUN MICROSYSTEMS, INC. ("SUN") IS WILLING TO LICENSE THE SOFTWARE IDENTIFIED BELOW TO YOU ONLY UPON THE CONDITION THAT YOU ACCEPT ALL OF THE TERMS CONTAINED IN THIS BINARY CODE LICENSE AGREEMENT AND SUPPLEMENTAL LICENSE TERMS (COLLECTIVELY "AGREEMENT"). PLEASE READ THE AGREEMENT CAREFULLY. BY DOWNLOADING OR INSTALLING THIS SOFTWARE, YOU ACCEPT THE TERMS OF THE AGREEMENT. INDICATE ACCEPTANCE BY SELECTING THE "ACCEPT" BUTTON AT THE BOTTOM OF THE AGREEMENT. IF YOU ARE NOT WILLING TO BE BOUND BY ALL THE TERMS, SELECT THE "DECLINE" BUTTON AT THE BOTTOM OF THE AGREEMENT AND THE	
 I accept the terms in the license agreement I do not accept the terms in the license agreement InstallShield	
Next > Cancel	

3. In this dialog box, optional features will be listed, choose the one you need and click **Next**.

🛃 J2SE Development Kit 5.0 Update 7 - Custom Set	1p 🔀
Custom Setup Select the program features you want installed.	SUN.
Select optional features to install from the list below. You ca installation by using the Add/Remove Programs utility in the of Pevelopment Tools Demos Source Code Public JRE	
Install to: C:\Program Files\Java\jdk1.5.0_07\ InstallShield	hange
< <u>B</u> ack	Next > Cancel

4. Wait for a while to install the selected feature.

🛃 J2SE Dev	velopment Kit 5.0 Update 7 - Progress	
Installing The prog	ram features you selected are being installed.	
P	Please wait while the Install Wizard installs J2SE Development Kit 5.0 Update 7. This may take several minutes.	
	Status:	
InstallShield —		
	< <u>B</u> ack <u>N</u> ext >	

5. When this dialog box appears, please click **Next**.



6. You have to choose the browser for configuring VigorACS later, and then click **Next**.

🛃 J2SE Runtime Environment 5.0 Update 7 - Browser Registration	
Browser Registration Select the browsers you want to register with Java(TM) Plug-In.	Sun.
Microsoft Internet Explorer	
You may change the settings later in the Java(TM) Control Panel.	
InstallShield	Cancel

7. Wait for a while to install the required features.

🛃 J2SE Ru	ntime Environment 5.0 Update 7 - Progress
Installing The prog	ram features you selected are being installed.
17	Please wait while the Install Wizard installs J2SE Runtime Environment 5.0 Update 7. This may take several minutes.
	Status:
InstallShield –	
	< <u>B</u> ack <u>N</u> ext >

8. Now the installation is completed. Click **Finish** to exit the installing program.

🚽 J2SE Development Kit 5.0 Update 7 - Complete 🛛 🔀		
	Installation Completed	
	The Install Wizard has successfully installed J2SE Development Kit 5.0 Update 7. Click Finish to exit the wizard.	
♦Sun Java		
	< Back Einish Cancel	

2.1.2 Installation for MySQL

Follow the steps below to install MySQL.

- 1. Locate ACS\Software\mysql-4.0.17-win\Setup.exe from CD and double click on it to execute the installation.
- 2. When the welcome screen appears, please click **Next** for next step.



3. On this dialog box, click **Next**.

N



4. Determine the destination folder and click **Next**. The default directory used by this program is *c:\mysql*. You can modify it if you want and please make sure the name of directory should not be over 100 characters, otherwise you might encounter problem of VigorACS in installation.

Choose Destination Location		
Instal Istical	Setup will install MySQL Servers and Clients 4.0.17 in the following folder. To install to this folder, click Next. To install to a different folder, click Browse and select another folder. You can choose not to install MySQL Servers and Clients 4.0.17 by clicking Cancel to exit Setup.	
	Destination Folder C:\mysqlBrowse	
	< Back Next > Cancel	

5. On this dialog box, choose the type of setup you want and click **Next**.

Setup Туре		
	Click the type of Setup you prefer, then click Next.	
	• Typical	Program will be installed with the most common options. Recommended for most users.
	○ <u>C</u> ompact	Program will be installed with minimum required options.
Irratel IShteld	C Cystom	You may choose the options you want to install. Recommended for advanced users.
		< <u>B</u> ack <u>N</u> ext> Cancel

6. The installation program starts to install required files for MySQL to your computer. Wait for several seconds.

7. When the program finishes the installation, the following dialog box will appear. Please click Finish to finish MySQL installation.

Setup Complete	
	Setup has finished installing MySQL Servers and Clients 4.0.17 on your computer.
	Setup can launch the Read Me file and MySQL Servers and Clients 4.0.17. Choose the options you want below.
Instal IShie	Click Finish to complete Setup.
	< <u>B</u> ack Finish

2.1.3 Installation for VigorACS

It is time to install VigorACS. Follow the steps below.

1. Locate ACS\ACS\setup.exe from CD and double click on it to execute the installation.



2. Select the directory that MySQL being installed (done in 1.1.2) and click **Next**.

1 ^m / ₁ Setup - Vigor∆CS	
Select MySQL Install Path Where is the MySQL install path?	
Please select the folder of MySQL and then click Next button. Wrong pacter create/update Database.	ath can not
C:\mysql	B <u>r</u> owse
< <u>B</u> ack <u>N</u> ext :	Cancel

3. Select the directory that JDK being installed (done in 1.1.1) and click **Next**.

1 [∰] Setup - ¥igorACS	
Select JDK Install Path Where is the JDK install path?	
Please select the folder of the JDK and then click Next button. Wrong up VigorACS Server successfully!!	path can not start
C:\Program Files\Java\jdk1.5.0_07	Browse
< <u>B</u> ack <u>N</u> ext	> Cancel

4. In this dialog box, choose **Rebuild Database** (for rebuilding the VigorACS database) or **Upgrade Database** (for upgrading the database) and click **Next**.

] ²] Setup - ¥igorACS	
Database Install Type Selection	
Select the Rebuild option, setup program will recreate VigorACS Database. Select the Upgrade option, setup program will update your current VigorACS Datab Please select Rebuild or Upgrade Database, then click Next.	ase.
< <u>Back</u> Next>	Cancel

5. In the following dialog, type the serial number of VigorACS and then click **Next**. Please contact with your dealer to obtain the number.

1 Setup - VigorACS	
Serial Number What is your serial number?	
Please specify your serial number, then click Next. Serial Number:	
AF9FFE74FE587F14CC4B97D86B4xxxxxx	
< <u>B</u> ack <u>N</u> ext >	Cancel

6. Determine the destination folder and click **Next**. The default directory is *c:\Program Files\VigorACS*. You can modify it if you want and please make sure the name of directory should not be over 100 characters, otherwise you might encounter problem of VigorACS in installation.

1 ² / ₁ Setup - VigorACS	
Select Destination Location Where should VigorACS be installed?	
Setup will install VigorACS into the following folder.	
To continue, click Next. If you would like to select a different folder, click Browse.	
C:\Program Files\VigorACS Browse	
At least 77.2 MB of free disk space is required.	
< <u>B</u> ack <u>N</u> ext > Cancel	

7. Determine the program name of VigorACS for you to start up. Then click **Next**.

15 Setup - VigorACS
Select Start Menu Folder Where should Setup place the program's shortcuts?
Setup will create the program's shortcuts in the following Start Menu folder.
To continue, click Next. If you would like to select a different folder, click Browse.
VigorACS Browse
< <u>B</u> ack <u>N</u> ext > Cancel

8. In this dialog, check the box of "Create a desktop icon" for your necessity. Click Next.

1 ¹ / ₂ Setup - VigorACS
Select Additional Tasks Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing VigorACS, then click Next.
Additional icons:
Create a <u>d</u> esktop icon
< <u>B</u> ack <u>N</u> ext > Cancel

9. Now, the program is ready to install necessary features and files to your computer. Please click **Install** to start.

15 Setup - VigorACS	×
Ready to Install Setup is now ready to begin installing VigorACS on your computer.	Z
Click Install to continue with the installation, or click Back if you want to review or change any settings.	
Destination location: C:\Program Files\VigorACS	
Start Menu folder: VigorACS	
Additional tasks: Additional icons: Create a desktop icon	
< <u>B</u> ack Install Cancel	

10. Please wait for a while to complete the installation.

Jo Setup - VigorACS	
Installing Please wait while Setup installs VigorACS on your computer.	
Extracting files C:\Program Files\VigorACS\client\jbossall-client.jar	
	Cancel

11. While installing, the following screen will appear to show that MySQL has been activated. Please wait for next dialog appearing.



12. Now the program has completed the installation of VigorACS. Click **Finish** to exit it.



2.2 Platform for Linux or Solaris

Follow the steps listed below.

- 1. Login Linux or Solaris with root or the root privilege.
- 2. Locate VigorACS_Unix_Like_xxxxxx_xxxx.tar.gz from CD and copy it to your hard disk.
- 3. Decompress the setup packages gzip -cd VigorACS_Unix_Like_xxxxxx_xxxx.tar.gz |tar xvf -



4. Change the permissions mode of **install.sh** and **uninstall.sh**. chmod 755 ./install.sh

chmod 755 ./uninstall.sh



5. Please make sure you have /usr/bin/sh first. If not, please enter: ln -s /bin/sh /usr/bin/sh 6. Execute the installation by entering the following.



- 7. Click y to create *vigoracs* folder for storing necessary files.
- 8. Next, please select the item number which you want to execute. Be aware that VigorACS supports both Solaris and Linux OS. The program will detect the system you have in your computer.

For Solaris System

```
    Install library: libgcc coreutils libiconv ncurses install
(required by MySQL installation)
    Install mysql
    Install java
```

- 4. Install VigorACS (It will build one mysql database: tr069)
- 5. Upgrade VigorACS (It will upgrade tr069 database)
- 6. Exit

input select num:

For Linux System

- 1. Install mysql
- 2. Install java
- 3. Install VigorACS (It will build one mysql database: tr069)
- 4. Upgrade VigorACS (It will upgrade tr069 database)
- 5. Exit

```
input select num :
```

Note: For Linux OS owns the library that required by MySQL installation, so the item of "Install library" is not shown on the screen.

- 9. If your computer has installed MySQL or java previously, just skip the installation. Otherwise, install all the required applications (MySQL, Java and VigorACS) for your system. option number 4 is used to upgrade VigorACS, so it is not necessary to execute for the first time of installation.
- 10. Select the item of Exit to finish the installation.

Chapter 3 Getting Start

3.1 Overview

The procedures of starting up VigorACS:

- Start MySQL Database
- Configure IP setting(Set or change Binded IP of Vigor ACS)
- Start VigorACS

Configuration is different depending on the operation system you use.Please follow the steps listed below for each platform.

3.2 For Windows 2000 or XP

3.2.1 Start MySQL Database

After installing VigorACS, installing program will register MySQL as Windows Service. MySQL will startup automatically after installing VigorACS or rebooting. Normally, you don't need to worry about this step on Windows. But, if you find any problem on VigorACS, you should check MySQL first. Please go to **Start >Setup >Control Panel >Administrative Tools >Service** to check if the MySQL Service has been activate or not. If not, please double click it to enable.

3.2.2 Start VigorACS

Click Programs-> VigorACS ->Start VigorACS to startup VigorACS.

When starting the VigorACS at first time on Windows, the startup program will ask you input Server IP (means the WAN IP of the computer that VigorACS installed.



Please type the server IP and click OK.

When the following screen is shown, VigorACS is initiated successfully.

ex Start TR069	ACS	_ 🗆 🗙
14:47:30,859	INFO	[JobStoreTX] Removed Ø 'complete' triggers.
14:47:30,890	INFO	[JobStoreTX] Removed Ø stale fired job entries.
14:47:30,890	INFO	[QuartzScheduler] Scheduler SchedulerService_\$_instance_one s
tarted.		
14:47:31,593	INFO	[TomcatDeployer] deploy, ctxPath=/ACSServer, warUrl=/tmp/d
eploy/tmp1590	ACSSe	rverAPP.ear-contents/ACSServer-exp.war/
14:47:32,546	INFO	[ActionServlet] Loading chain catalog from jar:file:/C:/Progr
am Files/TRØ6	59_ACS	/server/default/lib/struts-core-1.3.5.jar!/org/apache/struts/c
hain/chain-co	onfig.	xml
14:47:34,906	INFO	[TilesPlugin] Tiles definition factory loaded for module ''.
14:47:36,750	INFO	[EARDeployer] Started J2EE application: file:/C:/Program File
s/TR069_ACS/s	server	/default/deploy/ACSServerAPP.ear
14:47:37,031	INFO	[Http11BaseProtocol] Starting Coyote HTTP/1.1 on http-192.168
.1.10-8080		
14:47:37,359	INFO	[ChannelSocket] JK: ajp13 listening on /192.168.1.10:8009
14:47:37,390	INFO	[JkMain] Jk running ID=0 time=0/156 config=null
14:47:37,406	INFO	[Http11BaseProtocol] Starting Coyote HTTP/1.1 on http-192.168
.1.10-8443		
14:47:37,484	INFO	[Server] JBoss (MX MicroKernel) [4.0.4.GA (build: CUSTag=JBos
s_4_0_4_GA da	ate=20	0605151000)] Started in 57s:844ms
		*

Now please click **Programs->VigorACS-> VigorACS Web Page** to start the application.

G	VigorACS •		Change Bind IP of VigorACS
	×	•	Rebuild Database
		•	Shutdown VigorACS
		•	Start VigorACS
		•	Test Database
		թ	Uninstall VigorACS
		•	Upgrade Database
		۲	VigorACS Web Page

The login page of VigorACS will be shown as the following:

VigerACS	Professional TR-069 ACS	é 🛄 🕗 🔍	
Home Log Help Logout			
Login			
User Name Password	Login		
			E)

Please type "root" as user name and "admin123" as password. Then click Login.

3.2.3 Change Bind IP of VigorACS

Once you input this IP at the first time of starting VigorACS, the system will keep it on *bindip.txt*. However, if you want to change the server bind IP, please follow the steps below:

1. Choose **Programs->VigorACS->Shutdown VigorACS** to stop VigorACS. This would make sure the IP change setting take effect.

Change Bind IP of VigorACS
Rebuild Database
Shutdown VigorACS
Start VigorACS
Test Database
Uninstall VigorACS
Upgrade Database
VigorACS Web Page

- 2. Select **Programs->VigorACS->Change Bind IP of VigorACS** to open the Input dialog.
- 3. Current used IP will be displayed. Please enter the IP address you would like to change and click **OK**.

Input Required	×
The current used IP is 172.16.3.111. Which host name or IP address do you want to bind for ACS Server service?	OK Cancel
172.16.3.229	

4. Choose **Programs->VigorACS->Start VigorACS** to initiate VigorACS server again.

3.2.4 Shutdown VigorACS

Choose Programs->VigorACS->Shutdown VigorACS to stop VigorACS.

🖬 VigorACS 🔹 🕨	👅 Change Bind IP of VigorACS
×	🐻 Rebuild Database
	🐻 Shutdown VigorACS
	👅 Start VigorACS
	👅 Test Database
	🛃 Uninstall VigorACS
	🐻 Upgrade Database
	🍯 VigorACS Web Page

3.3 For Linux or Solaris

3.3.1 Start/Shutdown MySQL Database

Execute "/usr/local/vigoracs/VIGORACS/bin/Vigoracs.sh" instruction. The following menu will appear.

- 1. start mysql
- 2. shutdown mysql
- 3. start VigorACS

4. shutdown VigorACS

5. edit bind ip of VigorACS Server(please keying IP or server name)

6. set the MAX and MIN memory value of running java (It will valid after restarting VigorACS)

7. view the MAX and MIN memory value of running java

8. exit

input select num:

Start to create snmpdb db
VigorACS MYSQL:
MySQL:
Create snmpdb db successfully
Create snmpdb db table
Create snmpdb table successfully
VigorACS and snmpdb install Successfully
1. Install mysql
2. Install java
3. Install VigorACS 〈 It will build one mysql database : snmpdb 〉
4. Upgrade VigorACS < It will upgrade snmpdb database >
5. Exit
input select num :
[root@localhost 0.0.1.3.1]# /usr/local/vigoracs/VigorACS/bin/vigoracs.sh
1. start mysgl
2. shutdown mysql
3. start liguines 20
4. shutdown VigorACS
5. edit bind ip of VigorACS Server(please keyin ip or servername) 6. set the MAX and MIN memory vaule of running java (It will valid after restarting VigorACS)
o. set the max and nin memory valle of running java (it will value arter restarting vigoras /
8. exit
o. exit input select num :

Type item number 1 to start MySQL database if necessary. Usually MySQL daemon will start automatically after installing VigorACS server.

Note: You can type "ps -ef/grep mysql" to view the content of MySQL. If you want to shutdown MySQL database, simply type the menu item 2 to close MySQL.

3.3.2 Start/Shutdown VigorACS

For the first time of starting the VigorACS on Solaris or Linux system, the startup program will need you to input Server IP. Select item number **3** for starting VigorACS. And type the required IP address used for initiating.

<pre># http://developer.java.sun.com/developer/bugParade/bugs/4465334.html</pre>
done ct
1.5
"vigoracsserver.sh"
[root@localhost bin]# ls
changeip.bat jboss_init_redhat.sh probe.sh set_memory.sh StartVigorACS.bat vigoracs.sh
changeip.bat.bak jboss_init_suse.sh run.bat shutdown.bat twiddle.bat VigorACS.url
classpath.sh memory.txt run.conf shutdown.jar twiddle.jar wstools.bat
hs_err_pid508.log noip.bat run.jar shutdown.sh twiddle.sh wstools.sh
jboss_init_hpux.sh probe.bat run.sh ShutdownVigorACS.bat vigoracsserver.sh
[root@localhost bin]# chmod 755 vigoracs.sh
[root@localhost bin]# chmod 755 vigoracsserver.sh
[root@localhost_bin]# ./vigoracs.sh
1. start mysql
2. shutdown mysql
3. start VigorACS
4. shutdown VigorACS
5. edit bind ip of VigorACS Server(please keyin ip or servername)
6. set the MAX and MIN memory vaule of running java (It will valid after restarting VigorACS)
7. view the MAX and MIN memory vaule of running java
8. exit
input select num :
a Mhich ip address do you want to bind for VigorACS service (x.x.x.x or Enter for bind localhost.localdomain server)?
Which is address up you want to bind for Vigornes service (x.x.x.x or enter for bind incarnost.incardomain server): 172.17.3.132
172-17-3-132

The system will start VigorACS with the specified IP address.

If you ever reboot machine after installing VigorACS, please execute

/usr/local/Vigoracs/VIGORACS/bin/Vigoracs.sh again and select item number 1 to start MySQL first. Later, select item 3 to start VigorACS. Then, login Linux or Solaris with your account and password. If the user wants to operate VigorACS on the desktop of Linux/Solaris, please initiate the desktop of Linux/Solaris.

3.3.3 Edit VigorACS IP

Once you input the IP address, VigorACS will keep it on *startway.txt*. However, if you want to change the server bind IP, please follow the steps below:

- 1. Execute "/usr/local/vigoracs/VIGORACS/bin/Vigoracs.sh" instruction.
- 2. Stop VigorACS by selecting item number 4 to shutdown VigorACS. Such action can make sure the new changed IP setting being effective.
- 3. Then select item number 5 to edit *startway.txt* by using *vi* editor.
- 4. When you finished the change of bind IP, please select item number 3 to start VigorACS again.
- 5. Open your browser, and enter the following URL to get into ACS login page http://{IP address of VigorACS}:8080/ACSServer/tr069servlet

3.4 Logout VigorACS

Simply click Logout menu to logout.

Chapter 4 Admin Operation

This menu can display detailed information for the CPE on network. You can modify the IP, PORT, URI, Device Name or Device Status to fit your request.



4.1 Networks/Devices Management

To edit, change or delete devices under different network, please open Admin->Network/Device Management for advanced operation. A Network/Devices table view will be shown as the following:

🔒 NetworkManagement 🔪					
name	address				
E 🕘 Network View(9992)					
99999(7)	bb				
177766(9)	test address				
😟 🍤 ууооооо88(4)	test address				
🗄 🍕 testnnnn(10)	nnn				
💿 🍕 networka(7)	networka				
🗄 🍕 testcccc(19)	testc				
🛓 🍕 testg66(13)	testg				
🗄 🍤 test2666(3)	test26				
🗄 🍤 test30333(4)	test3033				
🗄 🍤 test68(0)	test68				
🗄 🧐 test74(0)	test74				
🛓 🍤 test77(0)	test77				
🗄 🍤 test80(1)	test80				

Word: Search & O A B B											
name	Devicelo	I Device_name	SerialNum	Address	lp	Port	Uri	UserName	Password	Status	DeviceTyp
🖃 🍑 Network View(9992)	▲ 1	1	1		192.168.5.1	80	1	vigor	password	Disable	Tr069
99999(7)	2043	3766	37	37	192.168.5.37	80	37	vigor	password	Enable	Tr069
······································	2107	10133	101	101	192.168.5.101	80	101	∨igor	password	Disable	Tr069
😐 🍤 ууооооо88(4)	2108	102	102	102	192.168.5.102	80	102	vigor	password	Disable	Tr069
😟 🧐 testnnnn(10)	2109	103	103	103	192.168.5.103	80	103	vigor	password	Disable	Tr069
🗈 🧐 networka(7)	2111	105	105	105	192.168.5.105	80	105	vigor	password	Disable	Tr069
😟 🍕 testcccc(19)	2112	106	106	106	192.168.5.108	80	106	vigor	password	Disable	Tr069
🖻 🍤 testg66(13)	2113	107	107	107	192.168.5.107	80	107	vigor	password	Disable	Tr069
🖶 🍤 test2666(3)	2114	108	108	108	192.168.5.108	80	108	vigor	password	Disable	Tr069
😟 🧐 test30333(4)	2115	109	109	109	192.168.5.109	80	109	vigor	password	Disable	Tr069
🗄 🧐 test68(0)	2116	110	110	110	192.168.5.110	80	110	vigor	password	Disable	Tr069
test7400	2117	111	111	111	192.168.5.111	80	111	vigor	password	Disable	Tr069

Network View

2

Click "+" to expand the first layer for network.

Click this icon to refresh network display.

Click this icon to cancel network devices setting change.



4.1.1 Create Networks/Devices

Click **Admin->Network Management/Device Management** to get into network or device configuration page. VigorACS allows administrator to build several different Networks/CPE

devices. To create a Network/CPE setting, please click this icon for a new network setting, or for a new device setting. The following grids will be shown. Enter the configuration.,

then click **I** to save settings.

HetworkHanagement		
2000		
name	address	
E 390000(7)	bb test address	
(2. 5 777766(9)		
н 🍕 ууооооо88(4)	test address	
(ii) Stestminn(10)	nono	
🗈 🍕 networks(7)	networka	
E Stestcocc(10)	testc	
(+) Stestg68(13)	testg	
E Stest2000(3)	test26	
(i) Steat 30333(4)	test3033	
(i) 😴 test68(0)	test60	
(+ Stest74(0)	test74	
E Stest77(0)	test77	
E Stest80(1)	test80	
E Steat90(1)	test90	
(# 122(0)	test22	
E Stest45(0)	test45	
(i) Steat87(1)	test87	

yword Search a 🔕 📝 🖬 😭 🕫 🔤 🔟											
name	DeviceId	Device_nan Add Device	SerialItum	Address	lp.	Port	Uri	UserName	Password	Status	DeviceTyp
E 🔵 Network View(9992)	12002	9996	9995	9996	2220	80	9995	viaor	password	Disable	Tr069
(i) 🍤 99999(7)	12003	9997	9997	9997	9997	80	9997	vigor		Disable	Tr069
1 177768(0)	12004	9993	9998	9998	9990	80	5998	vigor	1.000	Enable	Tross
(+ 😼 yyooood88(4)	12010	testb	00507FC2.		172.17.3.223	8069		veger		Disable	Trocs
(+) Stestnonn(10)	12011		00507F22		172 17 3 77	8069	/cwm/CPN		password	Enable	Tr069
+ Snetworka(7)	12012	Supplier_000296_DSL gateway_00029			203 70 84 199		/cwm/CRN		password	Francia	Tr069
(i) 📢 testcoco(19)	12021	Dray/Tek 00507F Vigor 00507FD056D8						vigor	password	Enable	Tr069
E 100 100 100 100 100 100 100 100 100 10	12021	test33	00507PD0	tt	172 17 3 202	80	tt	tt .	password tt		Tr069
(e) Sect2666(3)	12024	test77	test77	a 77		77	77	77	u 77	Disable	Tross
(+) Stest30333(4)					test77.					Disable	
+ Stest68(0)	12026	t+st00	test08	80	82	88	88	88	88	Disable	Tr059
+ Stest74(0)	12027	test99	test99	99	22	99	99	99	99	Disable	Tr069
() Stest77(0)	12028	test98	test98	98	92	98	98	98	98	Disable	Tr069
(+) Stest80(1)	12029	test100	test100	100	100	100	100	100	100	Disable	Tr069
+ • test90(1)	12032	test	00507FC3		and the second s	8069	/cwm/CPN	. vigor	password	Enable	Tr069
+ • test22(0)	12033	DrayTek_00507F_Vigor_00507FC13164			172.17.3.116	8069	/cwm/CRN	vigor	password	Ernable	Tr069
(*************************************	12034	CastleNet_001C7B_IAD_null	bb		0000	801	/0	vigor	password	Enable	Tr069
⊕ € test(\$7(1))	12035	CastleNet_001C7B_IAD_null	null		0000	801	/0	vigor	password	Disable	Tr069

4.1.2 Delete Networks/Devices

To delete a network/device, click Admin->Network Management/Device Management

select the network/device grid displayed under Network View and click

VigorACS will ask you to confirm the deletion. You can click **OK** to execute the action, or click **No** to cancel.

8

9. 72

If there is still one device grouped under a sub-network/network, such network cannot be deleted until that device is removed.

4.1.3 Edit Device

Basically, all the connected CPE will be scanned by VigorACS automatically and shown on the screen. Simply choose the one you want to view and double click on the grid. The corresponding information for the selected CPE will be shown on the bottom of right side. You can modify the settings if necessary. See the following graphic for an example.

DeviceId Device_name	SerialNumt Address	lp	Port	Uri	UserName	Password	Status	DeviceType	
1 1	1	<u>192.168.5.1</u>	80	1	vigor	password	Disable	Tr069	
2043 3766	37 37	192.168.5.	80	37	vigor	password	Enable	🔽 Tr069 🔽	
DeviceId	The numbe automatica		ed here	is spec	ified by	VigorA	'CS		
Device_name	•	The original name will be displayed here. To change it, simply enter a new name							
SerialNumber.	The factory	The factory default Mac address of the CPE.							
Address	The original address will be displayed here. To change it, simply address a new address for replacing.								
IP	Enter the IP address of the CPE.								
PORT	Enter the port number of the CPE, e.g. 80.								
URI	Enter URI (Uniform Resource Identifiers) in this field. For example, the URL set on CPE's TR-069 web page is http://172.17.3.9:8080/ACSServer/services/ACSServlet, then the URI will be :/ACSServer/services/ACSServlet.								
User Name		Enter the username that displayed on the web page of TR-069 for that CPE.							
Password	Enter the password that displayed on the web page of TR-069 for that CPE.								
Status	VigorACS. Choose Di s	Choose Enable to make the CPE be controlled by VigorACS. Choose Disable to make the CPE be not controlled by VigorACS.							
SAVE	When you the settings		e modif	ication,	click SA	AVE to	invok	ae	

4.1.4 Edit Network

The Administrator can create several networks for different CPEs. Also, the administrator can edit the network for the CPE.

1. Click Admin->Network Management to get into network configuration page.

2. Click the grid of network that you want change, enter the information you want change in name and address field.

name	address	
🕞 🔵 Network View(9992)		
÷ 😼 99999(7)	bb	
Ė () 777766(9)	test address	
🕂 😒 teste	teste	
🕀 🍤 test80(0)	test80	
🖽 🍤 ууооооо88(4)	test address	
testeene(10)	nonn	

3. Click is to save network setting.

4.2 Parameter Range

You can adjust range of parameters for using in CPE.

ruleid	rulename
-1	InternetGatewayDevice.Layer3Forwarding.Forwarding. {i}.Status
-2	InternetGatewayDevice.Layer3Forwarding.Forwarding. {i}. Type
-3	InternetGatewayDevice.IPPingDiagnostics.DiagnosticsState
-4	InternetGatewayDevice.LANDevice. {i}.LANHostConfigManagement.UseAllocatedWAN
-5	$InternetGatewayDevice, LANDevice, \{i\}, LANHostConfigManagement, IPInterface, \{i\}, IPInterfaceAddressingTyperator and the term of term of$
-6	InternetGatewayDevice.LANDevice. {i}.LANEthernetInterfaceConfig. {i}.Status
-7	InternetGatewayDevice.LANDevice. {i}.LANEthernetInterfaceConfig. {i}.MaxBitRate
-8	$InternetGatewayDevice. LANDevice. \{i\}. LANE thernet Interface Config. \{i\}. Duple \times Mode and the thermal statement of the theta statement of the the the the the the the the the the$
-9	InternetGatewayDevice.LANDevice. {i}.LANUSBInterfaceConfig. {i}.Status
-10	InternetGatewayDevice.LANDevice. {i}.LANUSBInterfaceConfig. {i}.Type
-11	InternetGatewayDevice.LANDevice. {i}.LANUSBInterfaceConfig. {i}.Rate
-12	InternetGatewayDevice.LANDevice. {i}.LANUSBInterfaceConfig. {i}.Power
-13	InternetGatewayDevice.LANDevice. {i}.WLANConfiguration. {i}.Status
-14	InternetGatewayDevice.LANDevice. {i}.WLANConfiguration. {i}.BeaconType
-15	InternetGatewayDevice.LANDevice. {i}.WLANConfiguration. {i}.Standard
-16	InternetGatewayDevice.LANDevice. {i}.WLANConfiguration. {i}.WEPEncryptionLevel
-17	InternetGatewayDevice.LANDevice. {i}.WLANConfiguration. {i}.BasicEncryptionModes
-18	InternetGatewayDevice.LANDevice. {i}.WLANConfiguration. {i}.BasicAuthenticationMode
-19	InternetGatewayDevice. LANDevice. {i}.WLANConfiguration. {i}.WPAEncryptionModes

Click this icon to create new record. After clicking this icon, an empty field will be appeared on the bottom for you to enter the new parameter.
Click this icon to save current settings.

Click this icon to delete the selected parameter rule.

Click this icon to cancel the editing.

Click this icon to refresh display of current parameter setting.

Click this icon to view/add/modify detailed information for the **selected** parameter rule.

display Value -154 None None -154	lid
	lid
None -154	
	1

Example:

8

8

You are going to add addressing type - DHCP for CPE managed by VigorACS.

1. Click **Home->Table View**, then click on the grid of the device that you want edit parameter range, the parameter range window would pop as below.

ne	Value	IsWritable
] InternetGatewayDevice.		

- 2. Click "+" to expand folder tree and find the parameter.
- 3. The parameter path can be found by expanding the folder tree:

InternetGatewayDevice-> InternetGatewayDevice.WANDevice.1-> InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1-> InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection. 1->InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnecti on.1.AddressingType.

DrayTek_00507F_Vigor_00507FC35378		
ne	Value	IsWritable
🖽 🛄 InternetGatewayDevice.WANDevice.1.WANCommonInterfaceConfig.		
💼 🧰 InternetGatewayDevice.WANDevice.1.WANEthernetInterfaceConfig.		
😑 😋 InternetGatewayDevice WANDevice 1 WANConnectionDevice.		v
🚊 😋 InternetGatewayDevice WANDevice 1 WANConnectionDevice 1.		×
InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPConnectionNumberOfEntries	1	
InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPPPConnectionNumberOfEntries	1	
🔄 😋 InternetGatewayDevice.VVANDevice.1.VVANConnectionDevice.1.VVANIPConnection.		×
😑 😋 InternetGatewayDevice WANDevice 1 WANConnectionDevice 1 WANIPConnection 1 .		×
InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.Enable	true	×
InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.Uptime	171122	
InternetGatewayDevice WANDevice 1 WANConnectionDevice 1 WANIPConnection 1 IdleDisconnectTime	0	~
InternetGatewayDevice WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.AddressingType	Static	× ×
InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANIPConnection.1.ExternalIPAddress	DHCP	
D InternetGatewayDevice WANDevice 1 WANConnectionDevice 1 WANIPConnection 1 SubnetMask	Static 233.233.233.0	×
InternetGatewayDevice.WANDevice.1.WANConnectionDevice.1.WANPConnection.1.DefaultGateway	172.17.3.1	×

4. Choose **DHCP** from the list, then Click **I** to save parameter change.

4.3 VPN Setting

Click **Home->Topology View**. A map is provided for you to build VPN channel between two CPEs with easy operation.



Please type keyword and click **Search**. The searching result will be shown with a popup window on current screen.

Iđ	Location	Name		Port	Uri	Manufacturer	Oui	SerialNumber	Spec	Hardware	Address	Path
2011	<u>90</u>	DrayTek_00507F_Vigor_00507F223344	172.17.3.77	8069	/cwm/CRN.html	DrayTek	00507F	00507F223344	1.0	5	null	Networ View
2021	90	DrayTek_00507F_Vigor_00507FD056D8	172.17.3.203	80	/cwm/CRN.html	DrayTek	00507F	00507FD056D8	1.0	5	null	Networ View
2033	90	DrayTek_00507F_Vigor_00507FC13164	172.17.3.116	8069	/cwm/CRN.html	DrayTek	00507F	00507FC13164	1.0	3	null	Network View

You can click the **go** link to know relational information for the router. See the following example.



To zoom in one point on the map, please click and use the mouse to drag a frame (it will be shown with red rectangle). After releasing the mouse cursor, the detailed information for the area within the frame will be shown immediately.



4.3.1 Change LAN IP

To change LAN IP address for selected CPE:

1. Right click the CPE icon and choose **Change LanIP**.

1		2
	Change LanIP	2
竹市	Reboot	2
nchu	VPN Status	8
itv	Clear VPN Status	ş
-	分析器	2

2. A drop down menu will appear as the following.

💽 Change Lan IP	<u> </u>
LanIp : 192.168.1.1	
Submit	
*	

- 3. Type a new IP address in the field of LanIP and click Submit.
- 4. After several seconds, the new IP address will be saved.

4.3.2 Reboot the CPE

When you finish any configuration, please right click the CPE icon and choose **Reboot t**o make the new settings enabled.



4.3.3 View the Status

To view successful VPN connection Status for CPEs, please right click the CPE icon and choose **VPN Status**.



A dialog box with detailed information of VPN connection will appear.



To clear the VPN Status, please right click the CPE icon and choose Clear VPN Status.

4.3.4 Build VPN Connection (IPSec)/(PPTP)

Before you build VPN connection between two CPEs, you have to make sure both CPEs are set with different LAN IP (with different subnet, e.g., one side is 192.168.1.5; the other side is 192.168.2.5) to avoid conflict.

The map can assist you to build VPN Connection with brief operation – drag and hold the mouse, and release the mouse. Below shows an example of building VPN connection.

- 1. Right click any point on the map to display VPN Connection(IPSec)/(PPTP) link.
- 2. Choose VPN Connection.



3. Move your mouse to one (A) of the CPEs on both sides. Click and drag you mouse cursor to the other side (B) of the CPE.



4. VigorACS server will build VPN connection between A and B devices. Please wait for several seconds.

5. When a VPN connection is built, a green line (for PPTP) or blue line (for IPSec) will appear to indicate a successful VPN connection between A and B has been established.



4.3.5 Disconnect VPN

A connected VPN channel will be displayed on the map with green line. If you want to disconnect that VPN, please follow the steps below:

1. Right click any point on the map to display **VPN Disconnection** link.



2. Select VPN Disconnection and click on the green connection line. A confirmation dialog box will appear.



3. Click OK.

The VPN connection will be disconnected after several seconds.

Chapter 5 User Operation

Users who want to control CPE through VigorACS server can access VigorACS with user name and password. This menu allows a user to set name, password, e-mail address as identification in VigorACS system.

Each time, when the user wants to access into VigorACS, he/she can type the name and password that been set in this page. Other people also can set different name and password for accessing VigorACS. However, the password will be displayed with codes for prevent peeping by other users. Please keep your password well.



5.1 Insert/Update/Delete a User

To insert/update/delete a user, choose **User** item from **User** menu. The following web page will be shown on the screen.

me Provision Log A	dmin TR069-Test User	Help Logout				
		help Logod				
User						
🖬 🗑 😫 🎜						
						~
serid	username		useremail	description	status	
ers_0000000000000	root	+GW1NiO×If007lQm×5Llwzr4wic=	root@ems	System Administrator	active	
ers_1098932110500	admin	0DPiKuNIrrVmD8IUCuw1hQ×NqZc=	admin@ems	Administrator	Active	
sers_1098932152218	operator	/pbdOXVqxBt0KDqSkmUtNm1zkx8=	operator@ems	Operator	Active	
				DrayTek Corp. © 1997 - 2008 All rights	reserved. DrayTek Enterprise N	etwork Solu

userid	Display the identification number generated by VigorACS server.
username	Display the name that users created.
userpassword	Display the password that users entered. It will be displayed with random codes. If you forget the password, simply click the item and click Update for changing the password manually.
useremail	Display email address of the user.
description	Display the authority of the user. There are three levels –system administrator, administrator, and operator.
status	Display current status of the user. "Active" means the user is on the network.

5.1.1 Create new user account

To create a user account, click **New Record** to add a new user profile. An empty grid would show under the user information grid.

Institution Username Username Username Username Username desciption status size _0000000000 root +0VY1N0/U007/cm/SL/v2r4vic= root@ems System Advestator status size _000002110500 admin CDFVLARV/TMOULD/V/Tm/SL/v2r4vic= root@ems Advestator Adve size _0000221152010 operator 6600/VipUER/ExgSint/Bant2s/o= operator@ems Operator Adve	0
sers_0000000000 root +0M1N0.00070mrd3U/wzr4wic= root@ens System Administrator active sers_009932110500 admin 00FWuAlerYn08U.Cuv/ho2Ne2C+ admin@ens Administrator Active	
rs_1098932110500 admin 0DPKuAkrVmD8UDuw1h2x3qZcs admin@ems Administrator Active	
s_108932152219 operator #dod/3VvpdtRich2p3int/the123:d= operator@ena Operator Active	

User Name	Enter the name used by the user.
Password	Enter the password of the user.
Email	Enter the e-mail for communication between the user and VigorACS server.
Description	Description for the user.
Status	Choose Active to authorize access privilege to the user, Inactive to limit the access privilege.
Save	After editing user information, click Save I to save the setting.
Cancel	Click Cancel (2) to discard the setting.

5.1.2 Edit User Information

Users can modify the user information stored in VigorACS if necessary. Double click on the user information grid, the grid would become highlight and can be modified, after modifying

the user information, click **Save I** to save the setting.

🗅 🐱 🗃 🔽 🌲						
						~
userid	username	userpassword	useremail	description	status	
users_0000000000000	root	+GVV1NiOxIf007IQmx5Llwzr4wic=	root@ems	System Administrator	active	
users_1098932110500	admin	0DPiKuNIrrVmD8lUCuw1hQxNqZc=	admin@ems	Administrator	Active	
	operator	/pbdOXVqxBt0KDqSkmUtNm1zkx8=	operator@ems	Operator	Active	~

5.1.3 Delete User Account

To delete a user setting, please click on the grid that you want to delete, the grid would

become highlight, click **Delete** *integrable*, a window would pop and ask if you want delete the user setting, click yes to apply the deletion or no to cancel.

Delete						~
userid	username	userpassword	useremail	description	status	
users_000000000000	root	+GW1NiOxIf007IQmx5Llv Microso	ft Internet Explorer 🕅	System Administrator	active	
users_1098932110500	admin	0DPiKuNImVmD8IUCuw11		Administrator	Active	
		/pbdOXVqxBt0KDqSkmU	Are you sure to delete this?			
		4				
			確定 取消			

5.2 User Management

This page allows you to set the access privilege of VigorACS.

sers:		
×		
wailable:	S	elected:
Administrator Operator System Administrator	>>	
System Administrator	>	
[<	
[<<	

Users

Use the drop-down list to choose user that to be modified his/her access privilege..

AvailableDisplay the available privileges on this box. Click >> to
grant the user all access privileges or click > for certain
privilege. The selected privileges would be shown on the
selected box and the privileges setting would be applied to
the selected user. There are three types of access privileges.
System Administrator – grant highest authority. One with

this authority can do all of the jobs in VigorACS without any limitation. Administrator –One with this authority cannot use the functions under Admin and User editing pages, but can view and modify parameters of CPE. Operator – One with this authority cannot use the functions under Admin, User and Provision editing page, neither to modify parameters of CPE; only allow to check

Apply

Click this button to apply the settings.

and view parameters of CPE.

5.3 Device Group

The feature allows administrator (user) to manage networks and devices.

DeviceGroup Save Save						
ame	Select Devices					
= 🕒 Network View(9992)	NO	l.				
(i) 1 (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2						
• • 777706(9)						
⊕ 🛂 yyaaaas88(4)	YES					
🛞 🍤 testnonn(10)	NO					
🗄 🍕 networka(7)	ol.					
Setestcocc(19)						
() Stestg66(13)						
B Stest2000(3)						
🕫 🍤 test30333(4)						
H Stest00(0)						
(*) 🝤 lest(74(0)						
Stest77(0)						
🕫 🥞lest80(1)						

Use the drop down list to choose a user. Then you can assign devices or networks be managed by the selected user. Click the "+" to expand the **Network View** and select sub-network or device, the selected one would become highlight, then click **Save** to apply the setting.



Chapter 6 Home Page Operation

When you build all the network groups for the devices with different user names, you can start to manage the devices at any time. This chapter will guide you how can you manage the devices.

Login	
User Name Password	Login
	DrayTek Corp. © 1997 - 2006 All rights reserved. DrayTek Enterprise Network Solutions
Home	
🔒 Topology View	
🔒 Table View	

6.1 Table View

Please type "**root**" as the user name and "**admin123**" as the password at the login page, then click **Login**. The default page shows in Table View.

yword :	Search		G 🖇 🔛 🔳 🖝								
🗆 😡 Network View(35)	Status	DeviceId	Device_name	SerialNumber	lp	Port	Uri I	Manufacture	Oui	SpecVersio	HardwareVe
🖭 🍤 99999(4)	down	2043	3766	37	<u>192.168.5.37</u>	80	37	37	37	37	37
777766(4)	down	6979	4973	4973	<u>4973</u>	80	4973	4973	4973	4973	4973
💿 🍤 ууооооо88(1)	down	12004	9998	9998	9998	80	9998	9998	9998	9998	9998
🗄 🧐 testnnnn(2)	down	12011	DrayTek_00507F_Vigor_00507F223344	00507F223344	172.17.3.77	8069	/cwm/CRN	. DrayTek	00507F	1.0	5
🗄 🍤 networka(3)	down	12012	Supplier_000296_DSL gateway_0002960000.	. 00029600003A	203.70.94.199	7547	/cwm/CRN	. Supplier	000296	1.0	Solos 461
+ Stestcccc(2)	down	12021	DrayTek_00507F_Vigor_00507FD056D8	00507FD056D8	172.17.3.203	80	/cwm/CRN	. DrayTek	00507F	1.0	5
💌 🍤 testg66(7)	down	12032	test	00507FC35378	172.17.3.115	8069	/cwm/CRN	. DrayTek	00507F	1.0	4
📧 🍤 test2666(1)	up	12033	DrayTek_00507F_Vigor_00507FC13164	00507FC13164	172.17.3.116	8069	/cwm/CRN	. DrayTek	00507F	1.0	3
😟 🍤 test30333(2)	off	12034	CastleNet_001C7B_IAD_null	bb	0.0.0.0	801	/0	CastleNet	001C7B	1.1.0	1.2

The device List will be displayed as above. For the first time, there might be no device listed here. However, if you have enabled device(s) under **Admin** page and have set the authority for the user in **User->DeviceGroup** page, device(s) would scanned by VigorACS and been displayed in this page. The detail of list fields show as below:

Status

Display the status of the CPE under Network View. **Down** – Means the device (CPE) is closed and VigorACS cannot manage it. **Up**- Means the device (CPE) is open and allows VigorACS managing it. **Off** – Means the device (CPE) has not detected by VigorACS yet.

DeviceId	The number displayed here is specified by VigorACS automatically.
Device_name	Display the name of the device.
Serial Number	Display the number that CPE offers automatically. Each CPE will have different serial number.
IP	Display the IP address for the connected CPE.
Port	Display the port number for the connected CPE.
URI	Display the URI for the connected CPE.
Manufacturer	Display the manufacturer of the connected CPE.
OUI	Display the OUI (Organizationally Unique Identifier) for the connected CPE.
SpecVersion	Display the software version of CPE.
HardwareVersion	Display the hardware version of CPE.

To manage CPE through VigorACS, double click the device grid, the detail information would show as follow:

ame		Value	IsWritable		
⊡ 😋 InternetGatewayDevice.					
InternetGatewayDevice.LANDeviceNumberOfEntries		1			
InternetGatewayDevice.WANDeviceNumberOfEntries		2			
🕂 🦳 InternetGatewayDevice.DeviceInfo.					
B C InternetGatewayDevice.Time.					
🗄 🦳 InternetGatewayDevice Layer3Forwarding.					
InternetGatewayDevice.LANDevice.					
🗈 🧀 InternetGatewayDevice.WANDevice.					
E C InternetGatewayDevice.Services.					
InternetGatewayDevice.X_00507F_VPN.					
InternetGatewayDevice.X_00507F_NAT.					
InternetGatewayDevice.X_00507F_VLAN.					
🗄 🛅 InternetGatewayDevice X_00507F_Firewall.					
🗄 🧰 InternetGatewayDevice.X 00507F Status.					

Name	Display the name of CPE parameters.
Value	Display the value of CPE parameters.
IsWritable	If the parameter can be modify, the IsWritable field would
	be shown in 🥙 .

The administrator can access the CPEs through VigorACS and make changes to the remote CPEs easily.

6.2 Topology View

To see the device Topology, please click **Home->Topology View**.

On the world map, you will see the position of the CPE managed under VigorACS. Simply click on that point, a brief description for that CPE will be shown on the screen.





6.3 Reboot the CPE

If you have done changes to the selected device (CPE) and want to reboot it, switch to the **Table View**(**Home->Table View**), select a device under **Table View**, the selected device

would become highlight, then click **Reboot (1)**, VigorACS will ask you to confirm the rebooting, click Yes to reboot the device, or Cancel to cancel the rebooting.



6.4 Download File to CPE

VigorACS allows administrator download files to selected devices (CPEs). Select a device under **Table View** and click click **Download**, The following page would be shown.



FileType	There are three file types for you to choose for VigorACS to download. Firmware Upgrade Image –for downloading firmware. Web Content –to load web content filter. Vendor Configuration File –to load configuration file from vendor.
Filename	Enter the filename or use Browse , choose the file you want to apply to the device.
Apply	Apply the downloading.
Reset	Clear all field and cancel downloading.

6.5 Parameter Settings

VigorACS will scan the parameters used in the CPE. The parameter scanning is simultaneously with CPE. While you click the parameter folder tree, VigorACS would scan the CPE parameter settings through connection and save it.

ne		Value	IsWritable		
∃-🔂 InternetGatewayDevice.		1			
InternetGatewayDevice.LANDeviceNumberOfEntries		1			
InternetGatewayDevice.WANDeviceNumberOfEntries		2			
E-C InternetGatewayDevice.DeviceInfo.					
InternetGatewayDevice.ManagementServer.					
🕂 🛄 InternetGatewayDevice.Time.					
⊕- <u></u> InternetGatewayDevice.Layer3Forwarding.					
🗄 🛅 InternetGatewayDevice.LANDevice.					
- ConternetGatewayDevice.WANDevice.					
⊕ ☐ InternetGatewayDevice.Services.					
Comparing the state of the					
E-C InternetGatewayDevice.X_00507F_NAT.					
InternetGatewayDevice.X_00507F_VLAN.					
🗈 🧰 InternetGatewayDevice.X_00507F_Firewall.		1			
🗄 🧰 InternetGatewayDevice.X 00507F Status.					

6.6 Output Parameter File

Switch to Table View and select the device you want to output its parameter file, click

Output Parameter File , a dialog box will pop as below:

arch	2 🔳 🕻	2 3 1	* 🔺									
Status	DeviceId	Device	_name	Output	SerialNumber	lp	Port	Uri	Manufactur	Oui	SpecVersio	HardwareVe
up	1			Parameter File		172.17.3.228						
	Microsoft Internet Explorer											
	If you hope refresh parameter file that press "OK" else press "Cancel".											
		猫定 取消										

Click Yes to scan and get the parameter settings simultaneously from CPE, or Cancel to download the parameter settings stored in VigorACS.

檔案下載	×
是否要開啓或儲存這個檔案?	
名稱: DrayTek_00507F_Vigor_00507FC35378.xml 通型: XML Document 來自: 172.17.3.227	
開啓① 儲存⑤ 取消)
雖然來自網際網路的檔案可能是有用的,但是某些檔案有可能會傷害物的電腦。如果您不信任其來源,諸不要開啓或儲存這個檔案。有什麼樣的風險?	

The file store in Xml format and can be viewed with any text editor, administrator can check what parameters values set in the device (CPE). With this feature, the administrator can export parameter settings to other CPE.

6.7 Upload Parameter File

Select the CPE that you want upload parameter settings to it, and click **Upload** under **Table View(Home->Table View)**, a window would pop as below:

🚓 🗏 Uplo	ad Window				
FileType :		~			
Prefix :	1 Vendor Configuration File				
	2 Vendor I				
F	арріу	Reset			
-	11.2				

FileTypeThere are two kinds of files you can choose.
Vendor Configuration File –to load configuration file
from vendor.Vendor Log File – to upload log file from Vendor.PrefixEnter any characters for users to identify. It will be
appeared in the beginning of the filename that you want to
upload.ApplyClick this button to apply the uploading..ResetClick this button to clear all field and cancel the
uploading..

After clicking Apply, please wait for several seconds. The result will be shown as the following:

```
Status=1
StrartTime=Sat Jan 01 00:00:01 CST 1
CompleteTime=Sat Jan 01 00:00:02 CST 1
```

6.8 Edit the Parameter Value

_ _ _ _ _ _ _ _

The administrator can edit the parameter value for selected device. Double click the device grid that you want to edit under **Table View** to open parameter setting page. Usually, **InternetGatewayDevice** will be shown on box of parameter setting.

♣ DrayTek_00507F_Vigor_00507FC35378 ■ 20 2		
Name	Value	IsWritable
🕢 💼 InternetGatewayDevice.		

For example,

InternetGatewayDevice->InternetGatewayDevice.Deviceinfo->ProvisioningCode can be edited. Click on the grid, an empty input box would show, enter information you want to

vrayTek_00507F_Vigor_00507FC35378		
	Value	IsWritable
InternetGatewayDevice DeviceInfo.ManufacturerOUI	00507F	
InternetGatewayDevice.DeviceInfo.ModelName	Vigor2910V Series	
InternetGatewayDevice.DeviceInfo.Description	DrayTek Vigor Router	
🗅 InternetGatewayDevice.DeviceInfo.ProductClass	Vigor	
InternetGatewayDevice.DeviceInfo.SerialNumber	00507FC35378	
InternetGatewayDevice.DeviceInfo.HardwareVersion	4	
InternetGatewayDevice.DeviceInfo.SoftwareVersion	3.1.3	
-D InternetGatewayDevice.DeviceInfo.ModemFirmwareVersion	No DSL	
InternetGatewayDevice.DeviceInfo.SpecVersion	1.0	
InternetGatewayDevice.DeviceInfo.ProvisioningCode		 ✓
InternetGatewayDevice.DeviceInfo.UpTime	8707	
🗅 InternetGatewayDevice.DeviceInfo.OUI	00507F	
InternetGatewayDevice DeviceInfo.X_00507F_ManagementUsername		×

Note: Some of the parameters cannot be modified. Therefore the corresponding box

and field will be dimmed and no

icon be shown.

Chapter 7 Provision Operation

Provision operation can help administrator to set provision profiles for different TR-069 specific CPEs with little settings instead of configuring different routers one by one.

Provision	_
💊 UploadFile	deNetwork
💊 FirmwareUpgrade 🛛 🛛	• 💊 FirmwareUpgrade_ExcludeList
Provision Global Setting	💊 FirmwareUpgrade_Trigger
锅 KeepProfile	SirmwareUpgrade_IncludeNetwork
💪 GlobalParameter 🛛	SirmwareUpgrade_GlobalSetting
Provision	_
💊 UploadFile	
SirmwareUpgrade	•
Provision Global Setting	
KeepProfile	
GlobalParameter I	🔍 💊 GlobalParameter
	GlobalParameter_includenetwork

7.1 UploadFile

This feature allows administrator to upload the file to VigorACS at any time.

fileName	property	size	lastModified	directory	
mentante	Directory		05/27/2008 14:55:05	directory	
	Directory		04/07/2008 16:27:36		
0507f868568.xml	×ml file		05/13/2008 09:57:40		
910.cap	cap file		05/09/2008 17:48:22		
fg	Directory		04/16/2008 14:08:16		
ttpprovision	Directory		11/23/2007 16:36:04		
nput	Directory		05/27/2008 13:20:47		
stl	Directory	0	11/22/2007 14:39:13		
2k7v V B01172008.rst	rstfile	2914936	05/27/2008 14:55:05		
				ved. DrayTek Enterprise Networ	



Click this icon to upload the provision file.

🚓 🗏 Modal Window 🗮	=========
Choose File :	· 淄晤…
Upload	

Click this icon to download any provision file selected from the file list to such CPE.

Click this icon to create a new folder. It will be displayed under filename field.

å≣ Folder Window	
Folder Name :	
Create	

7.2 FirmwareUpgrade

FirmwareUpgrade web pages allow you to upgrade firmware for specified CPE device.

When VigorACS receives information from CPE about firmware upgrade, VigorACS server will check if **model name**, **modem firmware version**, **parameter of manufacturer OUI** and **software version** correspond to the information stored in VigorACS server. If everything can match but software version not, VigorACS will execute firmware upgrade with the file stored in server database automatically.

Principle

Refer to the following graphic:

Custom	ers	TACS
·J\	Initial or periodic inform request Get model, modem version, manufacture OUI and software version Return model, modem version, manufacture OUI and software version	
		If firmware upgrade enable If model, modem version, and OUI equal If software version not equal
	Request firmware upgrade	If not on exclusive list
	Firmware upgrade start	

- 1. VigorACS will get ModelName, ModemFirmwareVersion, ManufactureOUI and software version from CPE while CPE contacting with VigorACS.
- 2. VigorACS will check ModelName, ModemFirmwareVersion, ManufactureOUI on CPEs with information of CPEs stored in database to make sure the firmware is compatible for CPEs while administrator enables firmware upgrade.
- 3. If the ModelName, ModemFirmwareVersion, ManufactureOUI are fit CPEs to be upgraded firmware but software version is different(meaning there are a new firmware release), VigorACS will issue firmware upgraded to CPEs.
- 4. The CPEs start to firmware upgrade. When it finishes, CPE reboot by itself.
- 5. Network administrator can add devices to excluded list on VigorACS. Those devices on excluded list will be skipped from the firmware upgrade, even the model, modem version, and manufacture OUI are fit the CPEs.

Once network administrator has set up VigorACS, all devices with same ModelName, ModemFirmwareVersion, ManufactureOUI would upgrade the same firmware without other configuration.

Preparation

To upgrade the firmware, please:

- 1. Upload the required firmware from vendor for the CPE that you want to upgrade to VigorACS server. (Refer to 7.1 *UploadFile*).
- 2. Set triggering time for the firmware upgrade (Refer to 7.2.1 *FirmwareUpgrade_Trigger*). Such mechanism can help VigorACS to execute firmware upgrade automatically.
- 3. Choose suitable firmware for the CPE that you want to upgrade (Refer to 7.2.2 *FirmwareUpgrade_GlobalSetting*). You can set lots of GlobalSetting profiles to be used in different CPE devices. In this step, you must specify which firmware to be applied in the CPE device requiring to firmware upgrade.
- 4. Choose which CPE device required to execute firmware upgrade. Refer to 7.2.3 *FirmwareUpgrade_IncludeNetwork*.
- 5. Set excluded CPE devices for firmware upgrade. Refer to 7.2.4 *FirmwareUpgrade_ExcludeList*.

After finishing step 1 to step 5, VigorACS will upgrade firmware at the planned time with correct firmware for the specified CPE devices automatically. It is not necessary for you to click any button to execute firmware upgrade.

7.2.1 FirmwareUpgrade_Trigger

This page allows administrator to set special time to trigger the provision. You can specify a name for it.

Firmwar	reUpgrade	_Trigger \	1				i		1	e
trigername default	date	day_type Any	start_day	che end_day	time time_typ	e start_time	end_time	createtime Tue Nov 28 00:.	createuser	Ţ
l Nev	w Rec	ord		Click th	nis icon to cr	reate a ne	ew reco	ord.		
🔳 Sav	ve			Click th	nis icon to sa	ave the re	ecord.			
Del	lete			Click th	nis icon to d	elete the	selecte	d provisio	on file.	
	ncel			Click th	nis icon to c	ancel the	operat	ion.		
🛃 Ref	fresh			Click th	nis icon to re	efresh thi	s page.			
When yo	ou clicl	K New F	Record), a new 1	line will app	ear as fo	ollows.			
trigername default		day_type Any V	start_day 	che end_day □	Schedule time time_type Any	✓ start_time 00:00 ✓	end_time 00:00 	reatetime Tue Nov 28 00: -	reateuser root 	
riggerl	Name			• •	special and After you c	•				
					ed on the dr					10
ate				Mean th	ne following	g items to	be con	nfigured i	s date.	
lay_typ	e			any day Choose	Schedule t re according	o let Vig	orACS	update th	ne CPE	are

start_day

Use the pop-up calendar window to set the starting day for CPE firmware update. Move your mouse cursor to choose one day and click the mouse. The selected date will be shown on the entry box.

	🚓 🗏 Date Window 🔲
	Su Mo Tu We Th Fr Sa
	27 28 29 30 1 2 3
	4 5 6 7 8 9 10
	11 12 13 14 15 16 17
	18 19 20 21 22 23 24
	25 26 27 28 29 30 31
	Today
check_end_day	Check this box to let VigorACS check the end of the schedule automatically.
end_day	Use the pop-up calendar window to set the ending day a CPE firmware update. Move your mouse cursor to choos one day and click the mouse. The selected date will be shown on the entry box.
Time	Mean the following items to be configured is time.
time_type	Choose Any to let VigorACS update the CPE firmware any time. Choose Schedule to let VigorACS update the CPE firmware according to the time set in this page. Any Schedule
start_time	Use the pop-up calendar window to set the starting day CPE firmware update. Move your mouse cursor to choo one day and click the mouse. The selected date will be shown on the entry box.
end_time	Use the pop-up calendar window to set the ending day for CPE firmware update. Move your mouse cursor to choose one day and click the mouse. The selected date will be shown on the entry box.
createtime	Display the time of such time trigger created.
createuser	Display the name of the user/administrator who made s

7.2.2 FirmwareUpgrade_GlobalSetting

This web page allows you to **specify** required information for matching with the CPE device. The profiles created here will be regarded as a basis that VigorACS server uses to compare information coming from CPE router with the information stored in VigorACS server's database.

time triggering.

When VigorACS server receives information from CPE about firmware upgrade, it will check if the received model name, modem firmware version, parameters of manufacturer OUI and software version correspond to the information recorded in VigorACS server. If everything

can match but software version not, VigorACS will judge that the remote CPE requiring firmware upgrade. Next, VigorACS server will execute firmware upgrade with the file listed in FirmwareFile field automatically at specified time.

		1 1	1 1	
name	model name	modem fire manufact	tu software_v firmware_file	triggernam status event event
sampl	e Vigor2700 Seri	.100_A An 00507F	3.1.1.1_RC6 v2k7v_a_3.1.1.1_RC6.all	default Disable Nothing Get Par
) New	⁷ Record		Click this icon to create a ne	ew record.
Save	e		Click this icon to save the re	ecord.
🗾 Dele			Click this icon to delete the	-
2 Can			Click this icon to cancel the	-
			Click this icon to refresh this, a new line will appear as for	
nen you	I CIICK INEW	Record	, a new line will appear as fo	DIIOWS.
A A A A A A A A A A A A A A A A A A A	model_name	modem_fir/manufactu	software_v firmware_file 3.1.1_RC6 v2k7v_a_3.1.1.1_RC6.all 	v v v triggernam status event event_typ default Disable Nothing Get Para v v v v
l			Display the number of the g	global setting.
ame			Type a name for such settin	g file.
odel_na	ame		Type the model of the CPE firmware.	device that needs to upgrad
odem_f	irmware_v		Type the firmware version of A, Annex B, and etc.	of the CPE device, e.g., Ann

software_version	Type the version of the firmy	vare.
firmware_file	Click to choose one file	for this profile.
	🎄 🔤 TextPopUpWindow 🔤	
	file_id fileName	property
	o	Directory
	° .	Directory
	0 input 0 v2910 20071126.rst	Directory rst file
	0 02910_20071120.15t	rstnie
triggername	Choose one of the trigger pro	ofile from the drop down list.
		-
status	Click disable to give up the u enable to activate the upgrad Save .	
event	While upgrading firmware for parameters (e.g, WAN, LAN be backup in VigorACS serve future if required. Please cho Nothing Backup and Restore Nothing – All the parameters will not be saved/restored and VigorACS server executes fi Backup and Restore – All the CPE device will be saved and VigorACS server executes fi	y VPN) on CPE device can er and can be restored in the ose the one you need. s configured in CPE device d will be written after rmware upgrade for it. he parameters configured in d restored in a place before
event-type	you have to specify event typ Get Par Get Parameter Values Vendor Configuration File Get Parameter Values – Get scan all the parameters config connecting CPE device. You current configured parameters as the basis for parameters basis	enerally, VigorACS server will gured in CPE device while can choose this item to use rs obtained from CPE device ackup and restore. – Choose this time to use the

7.2.3 FirmwareUpgrade_IncludeNetwork

This page displays the quantities of profiles created in FirmwareUpgrade_GlobalSetting. You can specify which CPE device required to execute firmware upgrade.

Rovision_FirmwareUpgradeIncludeNetwork				
ProvisionName : Save				
name	Select Devices			
	NO			
DrayTek_00507F_Vigor_00507FC26824				

Move your mouse to the tree view of Network View. Select the ones (representing CPE devices) that needed to have firmware upgrade. Next, choose **YES** in the field of Select Devices.

🕌 Provision_FirmwareUpgradeIncludeNetwork	
ProvisionName : sample Save	
name	Select Devices
□- 😡 Network View(1)	NO
- American Strate	✓
	YES NO

Later, VigorACS server will judge the necessity of firmware upgrade for the selected CPE devices specified here to upgrade firmware by comparing the parameters settings stored in VigorACS server with the information received from the selected CPE device.

7.2.4 FirmwareUpgrade_ExcludeList

Not all the CPEs controlled by VigorACS need to upgrade firmware at any time. VigorACS provides excluding mechanism for the CPEs that do not need to upgrade firmware. This web page allows you to set excluded CPEs for firmware upgrade. Simply type the serial number of the CPE on SerialNumber field and click **Save**. The one will be shown on the list. Next time, if you want to upgrade firmware for the specified CPE, simple open this page and remove the item.

	ision_FirmwareUpgrade_ExcludeList			
				9
id			serialnumber	4
		No ite	ms to show.	
🛄 N	New Record	Click this	icon to create a new record.	
1.0				
🗾 S	Save	Click this	icon to save the record.	
🗑 р	Delete	Click this	icon to delete the selected provision file.	
		chen uns	feel to defete the selected provision mer	
	Cancel	Click this	icon to cancel the operation.	
	anter	Click this	teon to calleer the operation.	
🐔 р	Refresh	Click this	icon to refresh this name	
			icon to refresh this page.	
Whon	you click New Record 🛄	a now lin	e will appear as follows.	
when .	you click New Kecolu	, a new nn	e will appear as follows.	
/ 👬 Pro	vision_FirmwareUpgrade_ExcludeLis	it		
🗋 🛃 វ	🗑 🔼 🎜			
				9
id			serialnumber	±.

SerialNumber

Type the serial number of the CPE that does not need to upgrade firmware.

7.3 Provision Global Setting

Provision Global Setting allows you to IMPORT existed profile. The CPE will send message to VigorACS server for an interval, for restarting and for the fist time initiating. VigorACS Server will check the database to find out the request of configuration for that CPE. If yes, VigorACS server will configure the parameters of that CPE directly according to the profile set previously.

For several CPEs can be assigned in the profile and the serial numbers of those CPEs will be recorded in the profile (with file format of XML), when you choose a profile and click **Upload**, all the configuration recorded in that file will be applied to the CPEs that listed on the profile.

You can modify XML file manually. Please use any text editor to open the profile.

The content of XML file will be similar to the following example:

<?xml version="1.0" encoding="UTF-8"?> <tr069 xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:type="tr069"> <items> <items> <item id="1" name="InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP.AuthPassword"/> <item id="2" name="InternetGatewayDevice.Services.VoiceService.1.VoiceProfile.1.Line.1.SIP.AuthUserName"/> </items> <devices> <devices> <devicesson == "00507F3331FC" name="DrayTek_Test_00507FD9C2C0" isreboot="false" network="networkname"> <parameter id="1" value="12345678"/> <parameter id="1" value="12345678"/> </devices> </devices> </devices> </tr069>

<items>:</items>	define which parameters needed to be configured.				
id:	index number				
name:	name of the parameter				
<devices>:</devices>	specify how many devices will be applied and configured.				
serialnumber	: serial number of the CPE				
name:	name of the CPE that can be changed.				
isreboot:	decide if CPE needs to reboot or not after setting parameters				
network:	explain the CPE belonging to which network				
<parameter></parameter>	arameter>: the value that you want to set/change/modify				
id:	indicate the index of the number used in item				
value:	characters for that parameter				

Provision Global Setting						
			1			_
e id fileName	property		size	lastModified	directory	
		No items	to show.			
Delete					provision file	
Refresh		Click this ic	con to refresh	current stat	us.	
Upload			_		on file.	
Download			con to downlo ACS server to		used provisior	n file
Detail		Click this ic Detail Window SettingProfile.cg_Uples settingProfile.cg_Setva SettingProfile.cg_Setva settingProfile.cg_Setva	g retry_c itime	renew_current Leading data	rmation windo	DW.
Host		For the regi	last of sustan	Loading data	n connect Vig	

For the request of customers, you can connect VigorACS with remote server. Please specify the remote server by typing URL on this page. After clicking **Save**, the remote server will receive notification from VigorACS. When VigorACS executes setting_profile to the connected CPE according to the content of the profile, it also will inform remote host. Click this icon to open host window.

	🚴 🗏 Host Wind	dow	=====================================
	url : http	://localhost:8080,	/ACSServer/TestServlet
	username : acs		
	password : pas	sword	
	status : Dis	able	*
	Save	Reset	
Upload Text File	Password - Typ Status - The der notify remote hor remote host exis host. Reset – Clear cu	pe the name of be the password fault setting is I ost easily. Choos sted or you don' urrent settings. o upload a text o choose the on Window	the remote host. of the remote host. Enable. VigorACS can ose Disable if there is no 't want to inform remote file. A pop up window will
Show Text File		. This icon allo	XML for the profiles of ws you to switch viewing
File Name	List the name of	f the provision	profile.
Property	Describe the me		•
Size	List the size of t	he file.	
Last Modified	List the modific	ation date for th	ne last time.

7.4 KeepProfile

Some ISPs do not wish CPE client changing the parameters of CPE device. If the parameters of CPE device were modified by the users, VigorACS (the administrator) server could use the parameters listed in this web page to restore the original parameters.

Note: To enable KeepProfile setting, please go to Admin>>SystemParameter and set value to "**true**" for the item of ProvisionKeepParameter first.

	Admin_SystemParameter		
			✓
id	name	value	غ.
1	ProvisionKeepParameter	true	
2	ProvisionWaitCount	3	
-			

KeepProfile	Insert	Update	Delete		
	SerialNumber	Parameter			Value
				No items to show.	

Insert

Click **Insert** tab to open the following dialog.

🚴 🗌 Insert Profile 📃	ew.
SerialNumber :	
Parameter :	
Value :	
Save	

SerialNumber – Type the MAC address of the CPE device.

Parameter – Type the name of the parameters. If you forget the correct name, please go to Home page to check it, next return here and type it.

Value – Based on the parameters set above, type the required value. If you do not know how to define correct value, please go to Home page to check.

UpdateUpdate the parameters for the selected item (CPE device).DeleteClick this tab to remove current chosen item.

VigorACS User's Guide

7.5 GlobalParameter

To enable GlobalParameter setting, please go to Admin>>SystemParameter and set value to "true" for the item of IsSetGlobalParameter first.

17	IsSetGlobalParameter	true 🗸 🗸
16	KeepProfileUpdateRule	1
15	IsRebootAfterDownload	false
14		4

7.5.1 GlobalParameter

This web page allows users to set profiles which will be used to configure parameters of lots of selected CPE devices at one time.





name

Type the name for the global parameter profile, which will be applied in GlobalParameter_includenetwork.

7.5.2 GlobalParameter includenetwork

If you have created several profiles in GlobalParameter, you can specify which CPE device to be applied with the new created profile. If you do not specify any profile for the connected CPE device, the default profile configuration is "Empty" (displayed in the field of profile_id). No parameters will be applied to the connected CPE device.

Specify certain profile (globalparameter) to be applied in selected network, selected CPE device by clicking on the tree view structure.

Provision_GlobalParameter_includenetwork Save				
name	profile_id			
	Empty			

Chapter 8 Log View

Log menu provides administrator records for manipulation, download, reboot, parameter values, object adding and deleting executed by VigorACS.

	TotalLog
▽ 🌡	Log
	🚨 ActionLog
	🚨 UploadDownloadLog
	🚨 RebootLog
	🚨 SetParameterValuesLog
	🚨 AddObjectLog
	🚨 DeleteObjectLog
	🚨 JobLog
	SettingProfileLog_Upload
	a SettingProfileLog_SetValue
	🚨 SettingProfileLog_NotifyList
	SettingProfileLog_NotifyLog
	🚨 FirmwareUpgradeBackupRestoreLog
	🚨 SystemLog

8.1 Action Log

This page displays all the activities executed by VigorACS.

id	action	deviceid	Devicellame	Deviceip	action_i	time
1	Inform		DrayTek_00507F_Vigor_0050			2008年7月24日
2	Reboot	1	DrayTek_00507F_Vigor_00503	172.17.3.228	1	2008年7月24日
3	Inform	1	DrayTek_00507F_Vigor_0050			2008年7月24日
4	SetParameterValues	1	DrayTek_00507F_Vigor_00507	172.17.3.228	1	2008年7月25日
5	Inform 1		DrayTek_00507F_Vigor_0050			2008年7月25日
6	SetParameterValues	1	DrayTek_00507F_Vigor_0050	172.17.3.228	2	2008年7月25日
7	Reboot	1	DrayTek_00507F_Vigor_00503	172.17.3.228	2	2008年7月25日
8	Inform	1	DrayTek_00507F_Vigor_0050		4	2008年7月25日
9	Reboot	1	DrayTek_00507F_Vigor_0050	172.17.3.228	3	2008年7月25日
	Inform		DrayTek_00507F_Vigor_0050			2008年7月25日
11	SetParameterValues	1	DrayTek_00507F_Vigor_00503	172.17.3.228	3	2008年7月25日
12	Inform		DrayTek_00507F_Vigor_0050		6	2008年7月29日
13	SetParameterValues	1	DrayTek_00507F_Vigor_00507	172.17.3.228	4	2008年7月29日
14	Reboot	1	DrayTek_00507F_Vigor_00507	172.17.3.228	4	2008年7月29日
	Inform	1	DrayTek_00507F_Vigor_0050		7	2008年7月29日
16	SetParameterValues	1	DrayTek_00507F_Vigor_00507	172.17.3.228	5	2008年7月29日
	Inform	1	DrayTek_00507F_Vigor_0050			2008年7月29日

All the actions will be listed one by one. To view the detail, simply double click on the action. A popup window will show device name, device IP, user ID, parameter key, create time, finish time, status, fault code, fault string, name, value and so on.

	ail Window									800
1									(3
ic	I manufacturer	oui	productclass	serialnumber	max_envelope	currenttime	retry_count	eventCode	commandKey	
	1 DrayTek	00507F	Vigor	00507FC35378	1	2008年7月24日上午 02:28:10	87	2 PERIODIC 4 VALUE CHANGE M Reboot		

8.2 UploadDownload Log

This page displays upload/download actions that VigorACS did for certain CPEs.

	8	2																				
									-										<			17
id	deviceid	Devicellame	Device	useri	comn	filena	createtime	finishtime	faulto	faults	filetyp	filesiz	url	passv	target	delay	succe	failure	status	starttime	,	completetime ≜

8.3 Reboot Log

This page displays all the reboot actions initiated by VigorACS.

icl	deviceid	DeviceName	Deviceip	userid	commandkey	currenttime	status
1	1	DrayTek_00507F_Vigor_00507	172.17.3.228	root	1216884229375	2008年7月24日	Finish.
2	1	DrayTek_00507F_Vigor_00507	172.17.3.228	root	1216982936156	2008年7月25日	Finish.
3	1	DrayTek_00507F_Vigor_00507	172.17.3.228	root	1216984338812	2008年7月25日	Finish.
4	1	DrayTek_00507F_Vigor_00507	172.17.3.228	root	1217298663515	2008年7月29日	Finish.

Commandkey

A string sent by VigorACS to the selected CPE for rebooting. After rebooting, the CPE will return this string to VigorACS to inform the administrator/user that the rebooting has been finished.

8.4 Set Parameter Values Log

This page displays all values of parameters of CPE devices controlled by VigorACS.

id	deviceid	Devicellame	Deviceip	userid	parameterkey	createtime	finishtime	status	faultcode	faultstring
1	1	DrayTek_00507F_Vigor_00507	172.17.3.228	root	-	2008年7月25日	2008年7月25日	Parameter changes hav	0	
2	1	DrayTek_00507F_Vigor_0050;	172.17.3.228	root	-	2008年7月25日	2008年7月25日	Parameter changes hav	0	
										Result Error: FaultCode: 9007 FaultString: hysid par
										SOAP Mecsage: <soap envelope="" xmins::<br="">Result Error: FaultCode: 9007 FaultString: Invalid per</soap>
										SOAP Message: «seap Envelope xmlns.) Result Error: FaultCode: 9007 FaultString: Invalid par
										SOAP Message: «soap Envelope xmins.:

Select and click any one of the items. A pop-up window with detailed information for that device will be displayed.



8.5 Add Object Log

This page displays all the objects added by VigorACS.

	8	2											
										~			9
id	deviceio	DeviceName	Deviceip	userid	objectname	parameterkey	createtime	finishtime	instancenumbe	status	faultcode	faultstring	±.

8.6 Delete Object Log

This page displays all the objects deleted by VigorACS.

a deviceid Deviceilame Deviceip userid objectname parameterkey createtime finishtime status faultcode faultstring [±]		8	2										
d deviceid Devicellame Deviceip userid objectname parameterkey createtime finishtime status faultcode faultstring 🛎										~		1	9
	id	deviceid	DeviceName	Deviceip	userid	objectname	parameterkey	createtime	finishtime	status	faultcode	faultstring	÷

8.7 Job Log

After applying provision to the selected CPE, VigorACS will store log of execution in VigorACS server. You can check JobLog.

	2											
									10			9
JOB_LOG JOB_NAM	E	JOB_GROUP	TRIGGER_NAME	TRIGGER_GROUP	FIRE_TIME	PREVIOU	JS_FIR	NEXT_FIRE_	TIN COMPLE	re_ti	SUCCESS	*

For detail of the job, simply select and click the item number. A pop-up window with detailed information for that job will be displayed.

8.8 Setting Profile Log Upload

After uploading the profile to the selected CPE (you have done configuration on **Provision>>Provision Global Setting** page), VigorACS will query database to find the proper configuration to the specified CPE while the CPE tries to connect to VigorACS server. If the specified CPE receives the configuration, it will return confirmation information to VigorACS server.

This page will list current status of the returning message of the CPE to VigorACS server.

You can open SettingProfileLog_Upload to check such information.

		~				~			[]
id	serialnumber	flag	retry_co	time	renew_c	current	username	action	file_id
1	00507FC35378	Set Value Successful.	1	2008年7月25日	0	NO	root	00	2
2								0 🔾	3
3								0 💿	4

For the content of the profile that you uploaded, simply select and click the item number. A pop-up window with detailed information will be displayed.

Se De	tail Wind	w	BE	í E
1	~		1	Y
id	setting	parameter	value	*
1	1	InternetOatewayDevice.DeviceInto ProvisioningCode	7007	

8.9 Setting ProfileLog SetValue

After uploading the profile to the selected CPE (you have done configuration on **Provision>>Provision Global Setting** page), VigorACS will list **all of attempts (one by one)** of applying the profile to the specified CPE when the CPE connects to VigorACS server. In general, VigorACS server will try three times to applying the profile.

			×						
id	serialnumber	time	flag	retry_n	u renew_r	setting_	description	faultcode	faultstring
1	00507FC35378	2008年7月25日	Set Value Successful.	1	0	1		0	
2									-
3									-
4									-
5									-

For the content of the profile, simply select and click the item number. A pop-up window with detailed information for that file will be displayed.

Sa 🗆 Del Unt	tail Winde	W	80	10
	1			Y
id	setting_	parameter	value	٨
1	1	InternetOatewayDevice.DeviceInto ProvisionIngCode	7007	

8.10 Setting ProfileLog NotifyList

VigorACS will notify other servers that set in **Provision->Provision Global Setting->Host** what it had done to the connected CPE. The execution log will wait for sent to the remote host by VigorACS. This page will display current status (notified or not notified) of notification for each job.

	8							
		~						9
id	serialnumber	isnotify	result	retry_no	createtime	finishtime	host	setting_ ≛

8.11 Setting ProfileLog NotifyLog

VigorACS will notify other servers that set in **Provision->Provision Global Setting->Host** what it had done to the connected CPE. The execution log will wait for sent to the remote host by VigorACS. VigorACS server will try to send the notification to specified hosts continuously till it succeeds. No matter the notification is sent out or not, it will be recorded and listed in this page.

	8	2			
					-9
id	setting_	response	request_time	response_tim retry_	_no ≜
8.12 FirmwareUpgradeBackeupRestoreLog

The page shows firmware update/backup/restore information.

	8	2									
				~	~	~					19
id	deviceid	DeviceName	Deviceip	Туре	Status	Event	Firmwar	Commandkey/Paramete	count	time	à.
4	S. (3)						S			60.	

8.13 SystemLog

The page shows CPE events.

	8			
				- 7
id	source	description	result	time 🔺
1	CPE_test_2930	Device has chaged name to CPE_test_2930,	Success	2008年7月25日
2	DrayTek_00507F_Vigor_00507FC35378	Device has chaged name to DrayTek_00507F_Vigor_00507FC353	Success	2008年7月25日

Chapter 9 TR069-Test

PD128 is a test standard for verifying if the selected CPE fits the regulation of TR069. If the selected device cannot pass through the PD128 test, it cannot communication with the ACS server



9.1 PD128_Device

If you had configured the TR-069 device and save the basic information on the database of VigorACS, you can invoke them by clicking **Admin**. Choose the device you want to test under Network View. On the bottom of the left side, a link of PD128 test will appear. Click that link to open PD128 Device. The relational information will be displayed on the page automatically. You can click the **Set** button to confirm that the selected CPE would be tested.

Specify the IP and DeviceName for the selected CPE to do PD128 test. When you finish the configuration, click **Set** to save it.

		PD128 Device
IP		
PORT	80	80
URI	1	/
UserName	vigor	vigor
Password	password	password
DeviceName		
PD128 Profile Name		Default 🗸

9.2 PD128_Profile

Though PD128 Test contains 27 items, yet you can set a profile to specify which test you will do to the specified CPE device. Click **TR069-Test>>PD128_Profile** to open the following page. Here we just capture short part of the page for your reference. To see the whole page, please use the scroll bar to scroll the page.

Profile Name :	~	
Test 8 - Firmware Download		
	Firmware File:	Browse
Test 9 - Get Parameter Names		
	Complete Path	
		IGD
		InternetGatewayDevice.DeviceInfo.Manufacturer
		VOIP
		InternetGatewayDevice.DeviceInfo.Manufacturer
	[STB
		InternetGatewayDevice.DeviceInfo.Manufacturer
Test 9 - Get Parameter Names		
	Partial Path - Next Level True	

If selected device (CPE) does not support the parameters that provided by VigorACS, please modify the configuration on this page directly to fit the parameters owned by selected CPE.

9.3 PD128_Test

There are 27 types of PD128 Test in the page. Each CPE searched by VigorACS must be checked with these tests one by one.

Test AI Wait for CPE connection. P: Test 2SSL Encryption Test Inst 3DHCP Vender Oxton Test Processing	Test 1 - HTTP Session Initiation Test 2 - SSL Encryston Test Test 3 - DHCP Vendor Option Test Test 4 - STUN NAT Traversal Test Test 5 - OWNP Session Initiation Test 5 - Comection Request Test 7 - Cell RPC Methods			
Pocessing Processing Pocessing Processing Test 2 - SSL Encryption Test Filt Test 3 - DHOP Vender Oxton Test Filt Test 4 - STUN NAT Traversal Test Filt Test 5 - COMPE Session Initiation Filt Pocessing Fi	Test 1 - HTTP Session Initiation Test 2 - SSL Encrystron Test Test 3 - OHCP Yeardor Oxfon Test Test 3 - OHCP Yeardor Oxfon Test Test 4 - STUN NAT Traversal Test Test 5 - OMMP Session Initiation Test 5 - Connection Request Test 7 - Get RPC Methods	Processing		
I cist 1 - HI IP Selection Medidion - I cist 2 - SSL Encrychion Test - I cist 3 - DHOP Vender Celtion Test - I cist 3 - Othop Vender Celtion Test - I cist 3 - Othop Vender Celtion Test - I cist 5 - Connection Request - I cist 5 - Connection Request - I cist 5 - Celt PPC Methods - I cist 1 - Celt PPC Methods - I cist 1 - Celt PPC Methods - I cist 1 - Celt PPC meter Values - I cist 1 - Celt Parameter Values - I cist 1 - Celt Attribute Values - I cist 1 - Sel Attribute Values - I cist 2 - VW				
Isst 3 - DHCP Vendor Oxton Test Isst 4 - STUNINAT Traversal Test Isst 5 - COMP Session Inflation Isst 6 - Connection Request Isst 7 - Cett RPC Methods Isst 7 - Cett RPC Methods Isst 3 - Get Parameter Names Isst 3 - Get Parameter Values Isst 3 - Get Parameter Values Isst 3 - Get Parameter Values Isst 3 - Deter Oxider Values Isst 3 - Deter Oxider Values Isst 1 - Set Parameter Values Isst 1 - Deter Oxider Values Isst 1 - Set Parameter Values Isst 1 - Deter Oxider Values Isst 1 - Nonty Port Maximum Values Isst 2 - Nation Oxider Values Isst 2 - Nation Oxider Values Isst 2 - Session Persition Isst 2 - Session Persitemen Test Isst 2 - Nation Sest	Test 3 - DHCP Vendor Option Test Test 4 - STUN NAT Traversal Test Test 5 - COMP Session Initiation Test 5 - Connection Request Test 7 - Get RPC Methods			
Isst 4 - STUN NAT Traversellest Isst 5 - CVMP Session Initiation Isst 5 - COMPC Session Initiation Isst 6 - Entraversel Isst 7 - Oet RPC Methods Isst 8 - Entraverse Download Isst 10 - Get Parameter Values Isst 10 - Get Parameter Values Isst 10 - Get Parameter Values Isst 11 - Set Parameter Values Isst 12 - Add Object Isst 13 - Delete Object Isst 14 - Modity Port Macona Table Entry Isst 15 - Get Attribute Values Isst 11 - Modity Port Macona Table Entry Isst 12 - Nodity Cont Macona Table Entry Isst 12 - Nodity Port Macona Table Entry Isst 12 - Nodity Cont Macona Creation Isst 12 - Nodity Cont Contauration Isst 23 - Geterway Device Association Isst 2	Test 4 - STUN NAT Traversal Test Test 5 - CVMP Session Initiation Test 5 - Connection Request Test 7 - Cet RPC Methods			
I test 5 - COMP. Session Initiation B* I test 5 - Connection Request B* I test 7 - Cont RPC. Methods B* I test 7 - Cont RPC. Methods B* I test 7 - Cont RPC. Methods B* I test 10 - Cost RPC. Methods B* I test 10 - Cost RPC. Methods B* I test 10 - Cost Parameter Values B* I test 10 - Cost Parameter Values B* I test 11 - Set Parameter Values B* I test 12 - Ovid Note Note Notes B* I test 13 - Set Attribute Values B* I test 15 - Set Attribute Values B* I test 12 - VAN Connection Creation B* I test 20 - VAN Connection Creation B* I test 20 - VAN Connection Creation B* I test 20 - VAN Connection Creation <	Test 5 - CVMP Session Initiation Test 6 - Connection Request Test 7 - Get RPC Methods			
Isst 5 - Connection Resuest Isst 7 - Cet RPC Methods Isst 7 - Cet RPC Methods Isst 7 - Service Research Names Isst 1 - Ser Parameter Values Isst 1 - Set Parameter Values Isst 1 - Reboot Isst 1 - Nordity Port Mapping Table Entry Isst 1 - Nordity Port Mapping Table Entry Isst 2 - WAN Connection Creation Isst 2 - VAN Sone Connection Previon Isst 2 - VAN Sone Connection <td< td=""><td>Test 6 - Connection Request Test 7 - Get RPC Methods</td><td></td><td></td><td></td></td<>	Test 6 - Connection Request Test 7 - Get RPC Methods			
I set 7 set BPC Methods IB-1 I set 8 Firmware Download IB-1 I set 9 Cet Parameter Manes IB-1 I set 9 Cet Parameter Values IB-1 I set 9 Cet Parameter Values IB-1 I set 9 Cet Parameter Values IB-1 I set 13 Delete Oxiect IB-1 I set 13 Delete Oxiect IB-1 I set 14 Reboot IB-1 I set 14 Reboot IB-1 I set 14 Nodity Port Maceina Table Entry IB-1 I set 15 Get Attribute Values IB-1 I set 14 Nodity Port Maceina Table Entry IB-1 I set 15 Set Attribute Values IB-1 I set 25 Set Note Set 16. IB-1 View Nonection Creation IB-1 I set 25 Phon Test1 IB-1 I set 25 Setsion Persitience Test	Test 7 - Get RPC Methods			
Itest 8 - Firmware Download B- Itest 9 - Get Branneter Values B- Itest 10 - Get Parameter Values B- Itest 11 - Set Parameter Values B- Itest 12 - Add Okind B- Itest 13 - Delete Object B- Itest 14 - Reboot B- Itest 15 - Set Attribute Values B- Itest 12 - Nodrik Port Monopin Table Entry Itest 12 - Waters Confloaration Itest 12 - Water North Connection Deletion Itest 22 - Okinot Confloaration Itest 23 - Geterway / Device Association Itest 23 - Geterway / Device Association Itest 23 - Session Persistence Test				
Ist 9 - Ost Parameter Names Ist 10 - Get Parameter Values Ist 10 - Get Parameter Values Ist 11 - Set Parameter Values Ist 12 - Add Object Ist 12 - Add Object Ist 13 - Rehood Ist 14 - Rehood Ist 12 - Set Attribute Values Ist 12 - Mod Object Ist 12 - Mod Object Ist 12 - Mod Object Ist 13 - Rehood Ist 14 - Rehood Ist 15 - Set Attribute Values Ist 12 - Modify Port Macping Table Entry Ist 21 - Walk Connection Creation Ist 22 - WAIN Connection Deletion Ist 22 - Wain Connection Deletion Ist 23 - Set Warw / Device Association Ist 23 - Set Pring Test Ist 24 - Multide Session Test Ist 24 - Session Persistence Test				
B Test 10 - Get Parameter Values B Test 11 - Set Parameter Values B Test 13 - Delete Object B Test 13 - Delete Object B Test 15 - Get Attribute Values B Test 15 - Set Attribute Values B Test 15 - Weinses Configuration B Test 12 - WAN Connection Creation B Test 12 - WAN Connection Creation B Test 22 - WAN Connection Creation B Test 22 - WAN Connection Creation B Test 22 - Wan Connection Creation B Test 23 - Gateway / Device Association B Test 23 - Session Persistience Test				
Isst 11 - Set Parameter Values Isst 12 - Add Oblied Isst 12 - Add Oblied Isst 13 - Delete Oblied Isst 15 - Delet Althoute Values Isst 15 - Get Althoute Values Isst 15 - Get Althoute Values Isst 15 - Set Althoute Values Isst 15 - Set Althoute Values Isst 15 - Set Althoute Values Isst 15 - Wireless Conflouration Isst 15 - Wireless Conflouration Creation Isst 12 - Wirele Sociation Creation Isst 12 - Wirele Association Isst 22 - Phina Test Isst 22 - Session Persistence Test				
Test 12 - Add Object Test 13 - Delete Object Test 13 - Delete Object Test 15 - Get Attribute Values Test 15 - Get Attribute Values Test 15 - Get Attribute Values Test 15 - Werkess Configuration Test 17 - Modify Port Maccing Table Entry Test 19 - WMAN Connection Oceation Test 20 - WAN Connection Oceation Test 20 - WAN Connection Deletion Test 22 - Prion Test Test 23 - Gateway / Device Association				
Test 13-Detect Object Test 13-Detect Object Test 15-Oet Attribute Values Test 15-Oet Attribute Values Test 15-Oet Attribute Values Test 15-Viraless Configuration Test 18-Viraless Configuration Test 18-Viraless Configuration Test 20-Viral Connection Detection Test 20-Viral Connection Detection Test 22-Define Test Test 23-Osteway / Device Association				
Test 14 - Reboot Test 15 - Get Attribute Yakes Test 15 - Set Attribute Yakes Test 15 - Set Attribute Yakes Test 15 - Set Attribute Yakes Test 15 - Modify Port Mapping Table Entry Test 19 - WMR Connection Creation Test 20 - WMR X Connection Creation Test 20 - WMR X Connection Creation Test 22 - Prima Test Test 22 - Prima Test Test 23 - Gateway / Device Association Test 24 - Multiple Session Test Test 25 - Session Persistence Test				
Test 15 - Get Attribute Values Test 15 - Get Attribute Values Test 15 - Set Attribute Values Test 17 - Modify Port Mappin Table Entry Test 19 - Wank Connection Creation Test 12 - WANK Connection Creation Test 22 - WANK Connection Deletion Test 22 - PR In Test Test 22 - PR In Test Test 23 - Gateway / Device Association Test 23 - Multice Session Test Test 24 - Multice Session Test				
Control C				
Test 17- Modify Port Mapping Table Entry Test 13 - Wheeless Configuration Test 13 - Walk Connection Creation Test 20 - WAIK Connection Deletion Test 20 - WAIK Connection Deletion Test 22 - Prina Test Test 23 - Gateway / Device Association Test 23 - Multiple Session Test Test 24 - Multiple Session Test Test 25 - Session Persistence Test				
Test 19 - Wieless Configuration Test 19 - WAN Connection Creation Test 20 - WAN Connection Deletion Test 21 - Vol SP Endocrit Configuration Test 22 - Pipe Test Test 23 - Gateway / Device Association Test 23 - Gateway / Device Association Test 24 - Multice Seasion Test Test 25 - Seasion Persistence Test				
Isst 19 - WAN Connection Creation Isst 20 - WAN Connection Deletion Isst 20 - WAR Science Test Isst 22 - P Pina Test Isst 23 - Gateway / Device Association Test 23 - Gateway / Device Association Test 24 - Multiple Session Test Isst 25 - Session Fest				
Test 20 - WAN Connection Deletion Test 21 - Vole 59 Endocrit Confluention Test 22 - Prina Test Test 23 - Offerwary / Device Association Test 23 - Offerwary / Device Association Test 24 - Mutiple Session Test Test 25 - Session Fersitence Test				
Test 21 - VolP SP Endpoint Configuration Test 22 - Principal Test Test 23 - Gateway / Device Association Test 24 - Multiple Session Test Test 25 - Session Persistence Test				
Test 22 - P Pina Test Test 23 - Gateway / Device Association Test 24 - Multiple Session Test Test 25 - Session Persistence Test				
Test 22 - Gateway / Device Association Test 24 - Multiple Session Test Test 25 - Session Test test Test 25 - Session Persistence Test				
Test 24 - Multiple Session Test Test 25 - Session Persistence Test				
Test 25 - Session Persistence Test				
	Test 25 - Session Persistence Test Test 26 - Session Retry Tests			

The filed under PD128 Test will show current test status for your reference. If you do not know the test well, simply click Detail for getting online help.

Appendix A Configuration on CPE Device

A.1 Set ACS URL on CPE

To manage CPEs through VigorACS, you have to set ACS URL on CPE first and set username and password for VigorACS.

- 1. Connect one CPE (e.g., Vigor2700 series).
- 2. Open a web browser (for example, IE, Mozilla Firefox or Netscape) on your computer and type http://192.168.1.1.
- 3. Please type username and password on the window. If you don't know the correct username and password, please consult your dealer to get them. In this section, we take the figures displayed on Windows as examples.

Connect to 192.1	68.1.1 🛛 🛛 🔀
	G.S.
Login to the Router V	Veb Configurator
<u>U</u> ser name:	2
Password:	
	Remember my password
	OK Cancel

4. Go to System Maintenance -> TR-069.

ACS Server			
URL	http://192.168.1.3	3:8080/ACSServer/services/ACSServlet	
Username	acs		
Password	•••••		
CPE Client			
URL	http://172.17.3.9/	cwm/CRN.html	
Username	vigor		
	119-11		
Password			
Periodic Inform S			
Periodic Inform S	ettings	900 second(s)	
Periodic Inform S O Disable S Enable	ettings	900second(s)	
Periodic Inform S Disable Enable Interval Tir Schedule 1	ettings	900second(s)	

- If the connected CPE needs to be authenticated, please set URL as the following and type username and password for ACS server: http://{IP address of VigorACS}:8080/ACSServer/services/ACSServlet
- If the connected CPE does not need to be authenticated please set URL as the following:

http://{ IP address of VigorACS}:8080/ACSServer/services/UnAuthACSServlet

- If the connected CPE needs to be authenticated and the data transmission between CPE and VigorACS needs to be encrypted (SSL), please set URL as the following: https://{IP address of VigorACS}:8443/ACSServer/services/ACSServlet
- If the connected CPE needs not to be authenticated but the data transmission between CPE and VigorACS needs to be encrypted (SSL), please set URL as the following: https://{IP address of VigorACS}:8443/ACSServer/services/UnAuthACSServlet
- 5. Fill Username and Password for VigorACS Server for authentication. Please type as the following:

Username: acs

Password: password

6. For the username and password of CPE client, it is not necessary for you to type them. Refer to section 3.2 for detailed information.

A.2 Invoke Remote Management for CPE

You have to make sure that the CPE device you want to connect supports VigorACS features. Please consult your dealer if you have no idea in it.

- 1. Suppose WAN IP of CPE device has been setup successfully. And you can access into Internet without difficulty.
- 2. Login the device by web.
- 3. Go to System Maintenance->Management Setup.
- 4. Check Enable remote firmware upgrade (FTP) and Allow management from the Internet to set management access control.

Management Setup	
Management Access Control	Management Port Setup
🗹 Enable remote firmware upgrade(FTP)	Default Ports (Telnet: 23, HTTP: 80, HTTPS:
Allow management from the Internet	443, FTP: 21)
Disable PING from the Internet	 User Define Ports
	Telnet Port 23
Access List	HTTP Port 80
List IP Subnet Mask	HTTPS Port 443
	FTP Port 21
2	
3	SNMP Setup
	Enable SNMP Agent
	Get Community public
	Set Community private
	Manager Host IP
	Trap Community public
	Notification Host IP
	Trap Timeout 10 seconds
1	



A.3 Enable WAN Connection on CPE

You have to make sure the CPE device you want to connect has configured properly, and are able to access Internet.

- 1. Login the device by web.
- 2. Go to Internet Access->MPoA.
- 3. Click **Enable** for MPoA.
- 4. Click **Specify an IP address**. Type correct WAN IP address, subnet mask and gateway IP address for your CPE. Then click **OK**.

Internet Access >> MPoA (RFC1483/2684)

MPoA (RFC1483/2684) ⓒ Enable	O Disable	WAN IP Network Setting	
DSL Modem Settings Multi-PVC channel Channel 1 Encapsulation 1483 Bridged IP LLC		C Obtain an IP address Router Name Domain Name *: Required for some ISP © Specify an IP address	*
VPI 8 VCI 35 Modulation Multimode	V	IP Address Subnet Mask	WAN IP Alias 172.17.3.9 255.255.255.0 172.17.3.1
RIP Protocol		Default MAC Address Specify a MAC Address	5

A.4 Set Authority for CPE on ACS

 Please login VigorACS by entering username and password. The default values are: User Name: root Password: admin123

Vig@r/	ACS	Professiona	I TR-069 ACS		
me Provision	Log Admin	User Help	Logout		
Login					
User Name					
Password					
			Login		
				DrayTek Corp. © 1997 - 2	2006 All rights reserved. DrayTek Enterprise Network Solution

2. Go to **User->DeviceGroup**.

eviceGroup	Iser IserManagement IserKanagement IserKanagement
users: root 💌 MainTree:	
Number of Designs	
Networks and Devices	Select Devices
Network View	VES V
Network View	YES 🖌

Use the drop down list to choose a user. Then you can select devices or networks under **Networks and Devices** field to be managed by the selected user. 3.

DeviceGroup		
users:		
MainTree:		
Networks and Devices	Select Devices	
Network View	YES 💌	
⊡ Subnetwork1		
DrayTek_00507F_Vigor_00507FB24058	NO 💌	
□ 7		
□ 9	NO 🔽	
DrayTek_00507F_Vigor_00507F123456	NO 🔽	
	Apply	

A.5 Set Username and Password for CPE on ACS

Please login VigorACS by entering username and password. The default values are: 1. **User Name: root** P

Password:	admin123

Login	
User Name Password	Login
	DrauTek Corp. © 1997 - 2006 All rights reserved. DrauTek Enterprise Network Solutions.

Click Admin tab. 2.

xpandAll CollapseAll	Create Device
	IP I
<u>Network View</u> <u>sub_network_1</u>	PORT
	URI
Method List	User Name
Create Device	Password
<u>reate Network</u> Jelete Network	Device Name
	DeviceStatus Enable 💌

3. Select device listed on left side that you want to manage. The relational device information will be shown on the screen of the right side. Please change the user name and password, then choose **Enable** from the drop down list of **DeviceStatus**.

andAll CollapseAll			Edit Device	
	IP	172.168.8.2	172.168.8.2	
<u>Network View</u> → → Sub network 1	PORT	80	80	
B Sub network 1 1	URI	/cm/cwm.html	/cm/cwm.html	
<u>draytek00000x3334</u>	UserName	vigor	vigor	
Method List	Password	password	password	
t Device	DeviceName	draytek0000x3334	draytek0000x3334	
l <u>ete Device</u> ange Network	DeviceStatus	Enable	Enable 💌	

4. The UserName and Password specified for the device will be shown automatically. Such name and password will be used in the WEB page of the device. See the following figure for of device WEB page as an example.

CS Server		
JRL	http://192.168.1.	33:8080/ACSServer/services/ACSServlet
Jsername	acs	
Password	******	
PE Client		
URL	http://172.17.3.9	Vcwm/CRN.html
Username	vigor	
Password		
eriodic Inform	Settings	
🔘 Disable		
💿 Enable		
Interval T	ime	900 second(s)
Schedule	Time	
Date	(yyyy-mm-dd)	2000 🗙 - 01 🗙 - 01 🗙
	(hh:mm:ss)	00 💙 : 00 🜱 : 00 🜱

A.6 Connect to ACS Server through PVC Channel

- 1. Login the device by web.
- 2. Go to **Internet Access->MPoA**.
- 3. Click **Enable** for MPoA.
- 4. Choose 1483 Bride IP LLC as encapsulation. And set VPI and VCI with 8 and 35.
- 5. Click **Specify an IP address**. Type correct WAN IP address, subnet mask and gateway IP address for your CPE. Then click **OK**.

Internet Access >> MPoA (RFC1483/2684)

MPoA (RFC1183/2684) C Enable C Disab	
DSL Modem Settings Multi-PVC channel Channel 1 Encapsulation 1483 Bridged IP LLC VPI 8 VCI 35 Modulation Multimode RIP Protocol Enable RIP	C Obtain an IP address automatically Router Name Domain Name *: Required for some ISPs Sec Specify an IP address IP Address IP Address I72.17.3.163 Subnet Mask 255.255.0 Gateway IP Address I72.17.3.1 C Default MAC Address
Bridge Mode	C Specify a MAC Address MAC Address: 00 .50 .7F :08 .C2 .01

6. Go to **Internet Access->Multi-PVCs**. Enable Channel 3 WAN check box and set VPI and VCI as 9 & 36.

General	ATM Q	oS	Port	-based B	rid	ge		
Channel	Enable	VPI	VCI	QoS Ty	pe	Protocol	Encapsulation	
1.	V	8	35	UBR	٠	MPoA 💌	1483 Bridged IP LLC	
2.	v	8	88	UBR	۳	MPoA 💌	1483 Bridged IP LLC	
3. <u>WAN</u>	Ā	9	36	UBR	٠	PPP0A .	VC MUX	
4. WAN		1	44	NBR	¥.	PPPoA V	VC MUX	
5. WAN		1	45	OBR		PPP0A E	VC MUX	
6.	Г	1	46	UBR	¥.	PPPoA V	VC MUX	
7.		1	47	UBR		PPP0A K	VC MUX	
8.	Г	1	48	UBR	¥.	PPP0A	VC MUX E	

Note: VPI/VCI must be unique for each channel!

OK	Clear	Cancel	
			i -

7. Click **WAN** link to open the following page for configuring in details.

Enable C Disable		
DSL Modern Settings		
VPI 9 QoS Type	UBR 💌	
VCI 36 Protocol	MPoA 💌)
Encapsula	ation 1483 Bridged IP LL	.c 💌
PPPoE/PPPoA Client	MPoA (RFC1483/268	+)
ISP Access Setup	C Obtain an IP addre	ess automatically
ISP Name	Router Name	
Username	Domain Name	
Password	*: Required for some	ISPs
PPP Authentication PAP or CHAP	© Specify an IP addr	ess
Always On	IP Address	172.17.3.162
Idle Timeout .1 second(s)	Subnet Mask	255.255.255.0
IP Address From ISP	Gateway IP Address	172.17.3.1
Fixed IP @ Yes @ No (Dynamic IP)	DNS Server IP Addres	

- 8. Set WAN for Router-borne Application as Management. And set VPI and VCI with 9 & 36. Choose MPoA as the protocol and choose 1483 Bridge IP LLC as Encapsulation. Finally set a static IP address. Click Ok.
- 9. Open **System Maintenance** >>**TR-069**. Choose **PVC** for ACS Server On. Type correct URL for the ACS server. Type username and password for ACS Server.

ACS Server On	PVC I
ACS Server	
URL	http://172.17.3.165:8080/ACSServer/services/ACSServlet
Username	acs
Password	*******
CPE Client	
	http://172.17.3.162/cwm/CRN.html
URL	
URL	80
	80 vigor

10. Return to VigorACS server web page. The CPE that you adjusted above should be displayed on the web page of ACS Server.

3
172.17.3.162
80
/com/CRN.html
vigor
password
_Vigor_00507FD8C200 DrayTek_00507F_Vigor_00507FD8C200
Disable 🛩

Appendix B Trouble Shooting

This appendix will guide you to solve abnormal situations if you cannot access into the Internet after installing the router and finishing the web configuration. Please follow sections below to check your basic installation status stage by stage.

When you try to invoke VigorACS and get the following error message, please locate the file of "*server.log*" from C:/Program Files/ VigorACS /server/default/log and send the file to your dealer for further assistance.



B.1 Contacting Your Dealer

If the router still cannot work correctly after trying many efforts, please contact your dealer for further help right away. For any questions, please feel free to send e-mail to support@draytek.com.

Appendix C Reference

C.1 For Linux System

Corresponding files on Linux system required for VigorACS will be stored in the following paths:

java: /usr/local/jdk1.5.0_07 mysql: /usr/local/mysql-standard-4.0.24-pc-linux-gnu-i686 vigoracs: /usr/local/vigoracs/VigorACS/

log: /usr/local/vigoracs/VigorACS/server/default/log/server.log license key: /usr/local/vigoracs/VigorACS/version/license.key bind ip: /usr/local/vigoracs/VigorACS/bin/startway.txt mysql data: /var/lib/mysql/tr069 start/stop vigoracs : /usr/local/vigoracs/VigorACS/bin/vigoracs.sh

To check the current process of VigorACS, please use the following commands to inquire

```
ps(vigoracs): ps -ef | grep "/usr/javase/bin/java -server" |grep -v grep
ps(mysql): ps -ef | grep safe_mysqld|grep -v grep
or
ps -ef | grep mysqld_safe|grep -v grep
```

Some link files are required for VigorACS running under Linux system properly. If any one of them is missed, unexpected problems might be happened.

```
ln(sh): /usr/bin/sh -> /bin/sh
ln(java): /usr/javase -> /usr/local/jdk1.5.0_07/
ln(mysql): /usr/local/mysql -> /usr/local/mysql-standard-4.0.24-pc-linux-gnu-i686/
ln(mysql): /tmp/mysql.sock -> /var/lib/mysql/mysql.sock
```

C.2 For Solaris System

Corresponding files on Solaris system required for VigorACS will be stored in the following paths:

```
java: /usr/jdk/jdk1.5.0_07/
mysql: /usr/local/mysql-standard-4.0.24-pc-linux-gnu-i686
vigoracs: /usr/local/vigoracs/VigorACS/
log: /usr/local/vigoracs/VigorACS/server/default/log/server.log
license key: /usr/local/vigoracs/VigorACS/version/license.key
bind ip: /usr/local/vigoracs/VigorACS/bin/startway.txt
mysql data: /var/lib/mysql/tr069
start/stop vigoracs : /usr/local/vigoracs/VigorACS/bin/vigoracs.sh
```

To check the current process of VigorACS, please use the following commands to inquire

ps(vigoracs): ps -ef | grep "/usr/javase/bin/java -server" |grep -v grep ps(mysql): ps -ef | grep safe_mysqld|grep -v grep or

ps -ef | grep mysqld_safe|grep -v grep

Some link files are required for VigorACS running under Linux system properly. If any one of them is missed, unexpected problems might be happened.

ln(sh): /usr/bin/sh -> /bin/sh ln(java): /usr/javase -> /usr/local/jdk1.5.0_07/ ln(mysql): /usr/local/mysql -> /usr/local/mysql-standard-4.0.24-pc-linux-gnu-i686/ ln(mysql): /tmp/mysql.sock -> /var/lib/mysql/mysql.sock

C.3 For Windows XP System

Corresponding files on Windows XP system required for VigorACS will be stored in the following paths:

```
java: C:\Program Files\Java\jdk1.5.0_07
mysql: C:\mysql
vigoracs: C:\Program Files\VigorACS
```

log: C:\Program Files\VigorACS\server\default\log\server.log license key: C:\Program Files\VigorACS\version\license.key bind ip: C:\Program Files\VigorACS\bin\bindip.txt mysql data: C:\mysql\data\tr069 start vigoracs : C:\Program Files\VigorACS\bin\StartVigorACS.bat stop vigoracs : C:\Program Files\VigorACS\bin\ShutdownVigorACS.bat