

Quick Start Guide
V1.2

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Version History

Version Number	Version Date	Version Editor	Changes
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	Boham Liu	UI description modified Interface screenshots recaptured

1

Software Installation

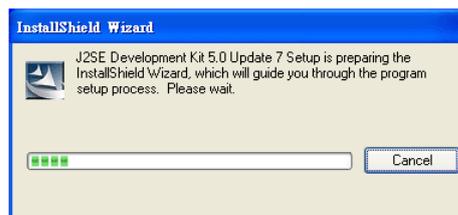
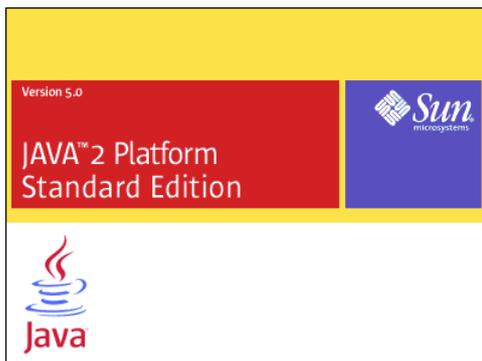
Please follow the procedure listed below to install VigorACS . The installation for different platforms might be different.

1.1 Platform for Windows 2000 or XP

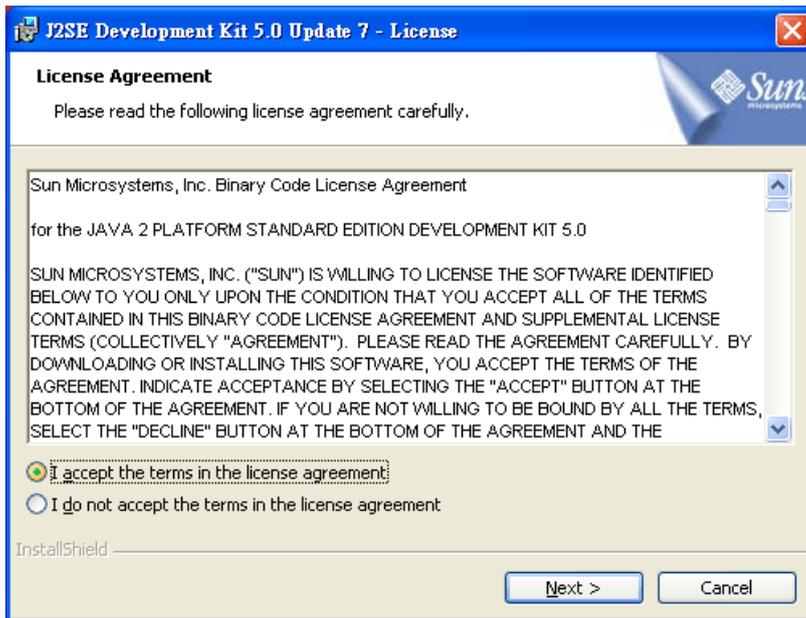
There are three programs needed to be installed for operating VigorACS.

1.1.1 Installation for Java

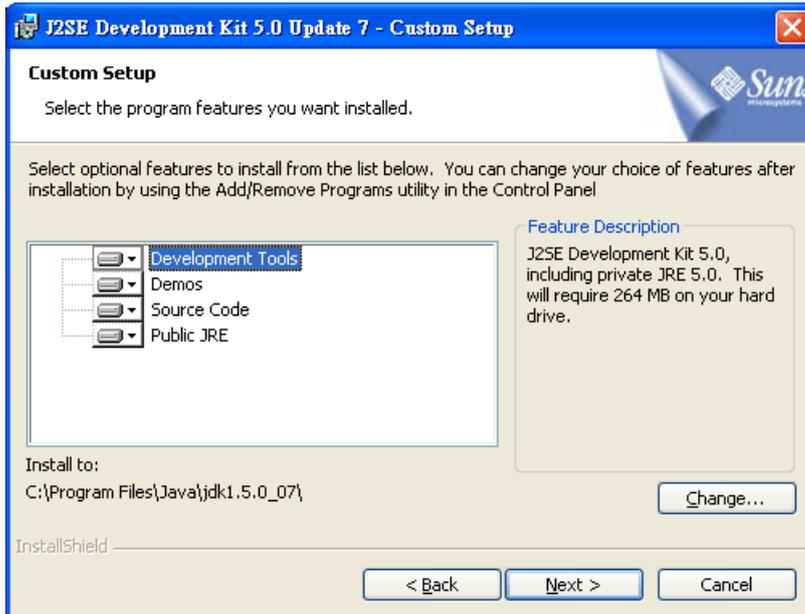
1. Locate ACS\Software\jdk-1_5_0_07-windows-i586-p.exe from CD and double click on it to execute the installation.



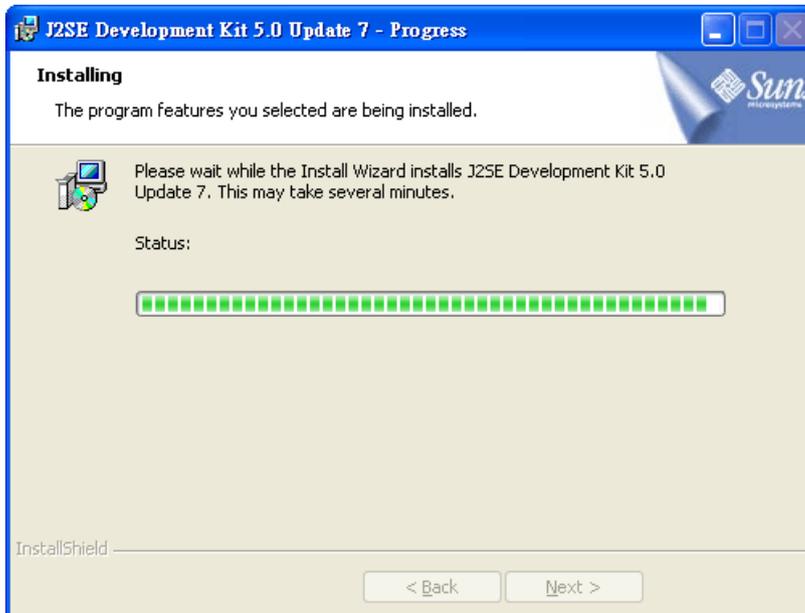
2. A license agreement dialog box will appear. Choose “I accept the ...” and click **Next**.



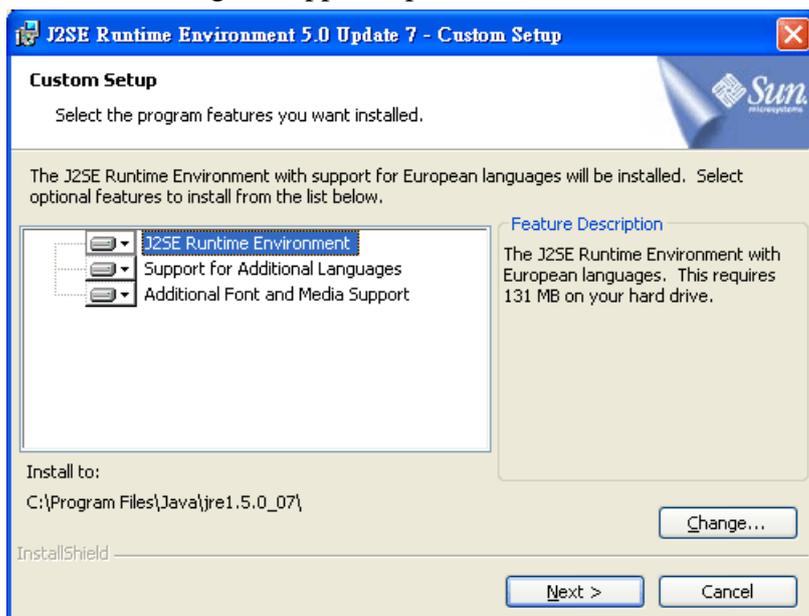
3. In this dialog box, optional features will be listed, choose the one you need and click **Next**.



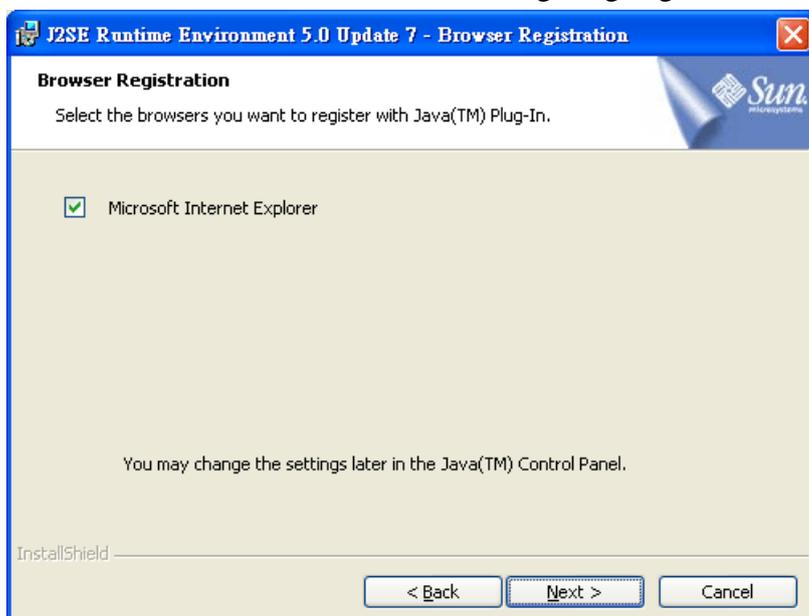
4. Wait for a while to install the selected feature.



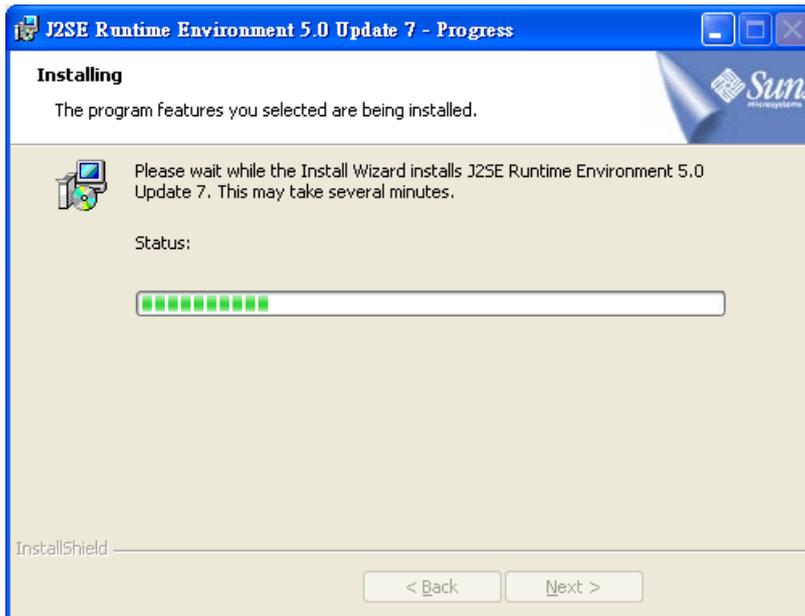
5. When this dialog box appears, please click **Next**.



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



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



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



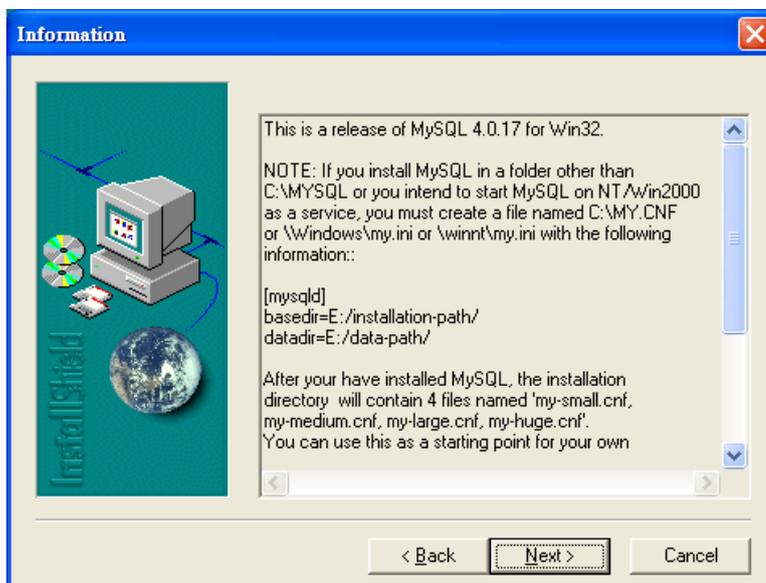
1.1.2 Installation for MySQL

Follow the steps below to install MySQL.

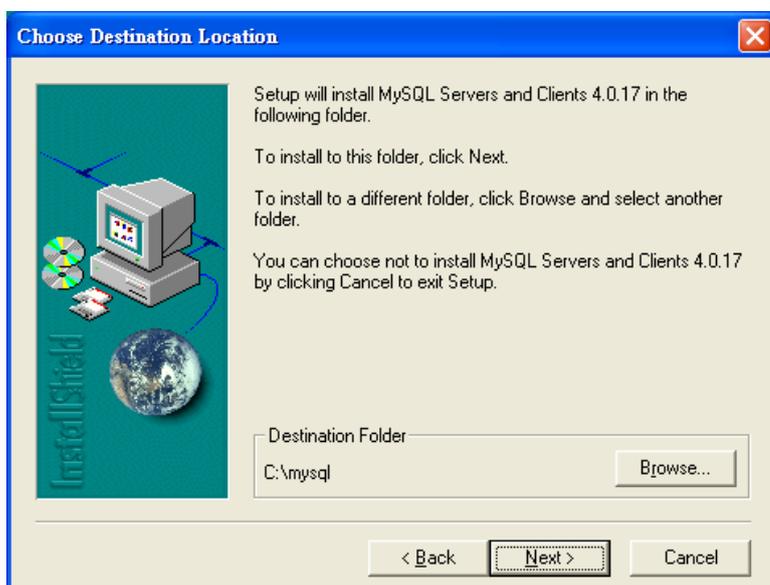
1. Locate ACS\Software\mysql-4.0.17-win\Setup.exe from CD and double click on it to execute the installation.
2. When the welcome screen appears, please click **Next** for next step.



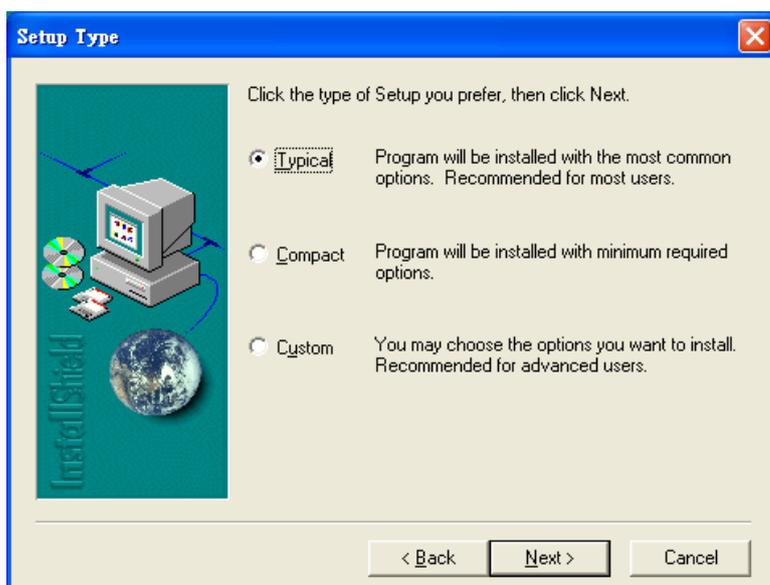
3. On this dialog box, click **Next**.



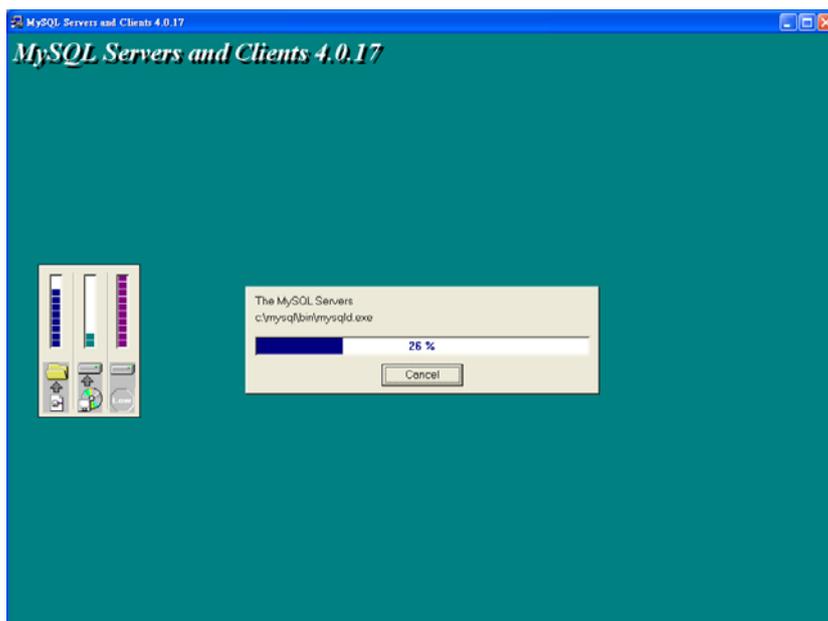
- Determine the destination folder and click **Next**. The default directory used by this program is *c:\mysql*. You can modify it if you want and please make sure the name of directory should not be over 100 characters, otherwise you might encounter problem of VigorACS in installation.



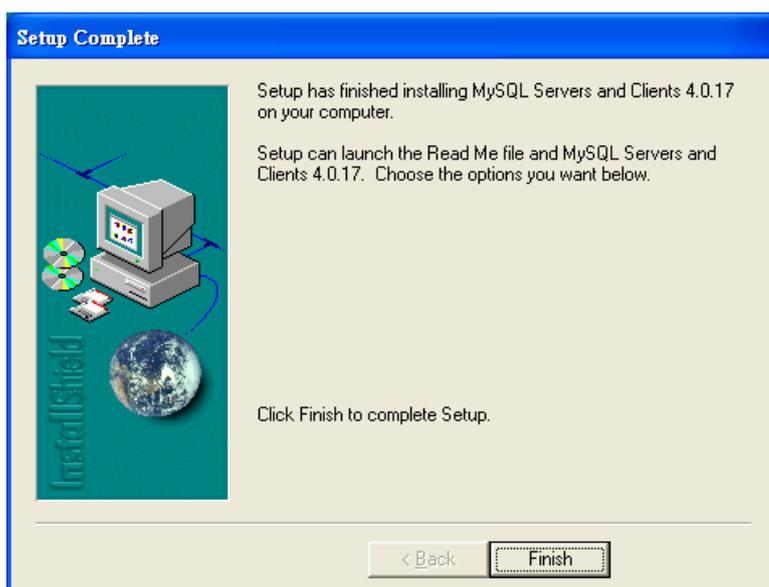
- On this dialog box, choose the type of setup you want and click **Next**.



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



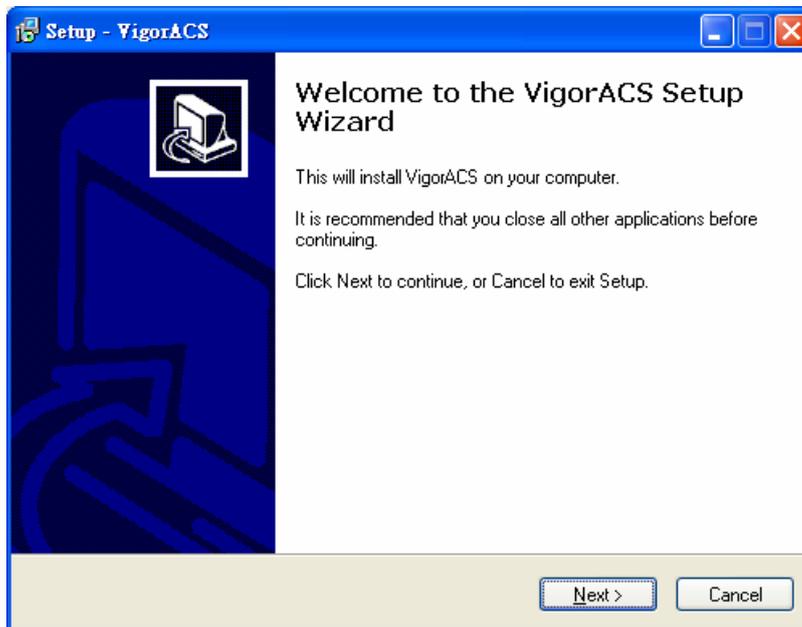
- When the program finishes the installation, the following dialog box will appear. Please click Finish to finish MySQL installation.



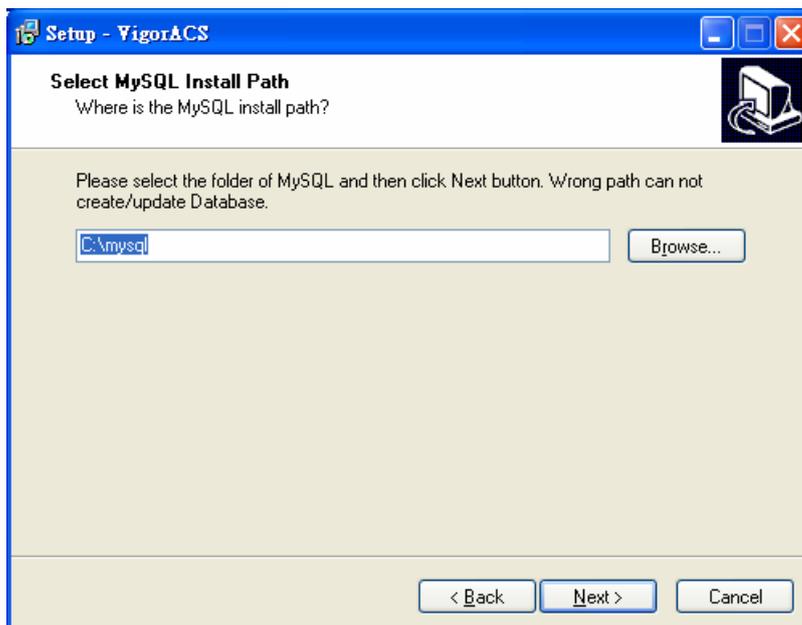
1.1.3 Installation for VigorACS

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

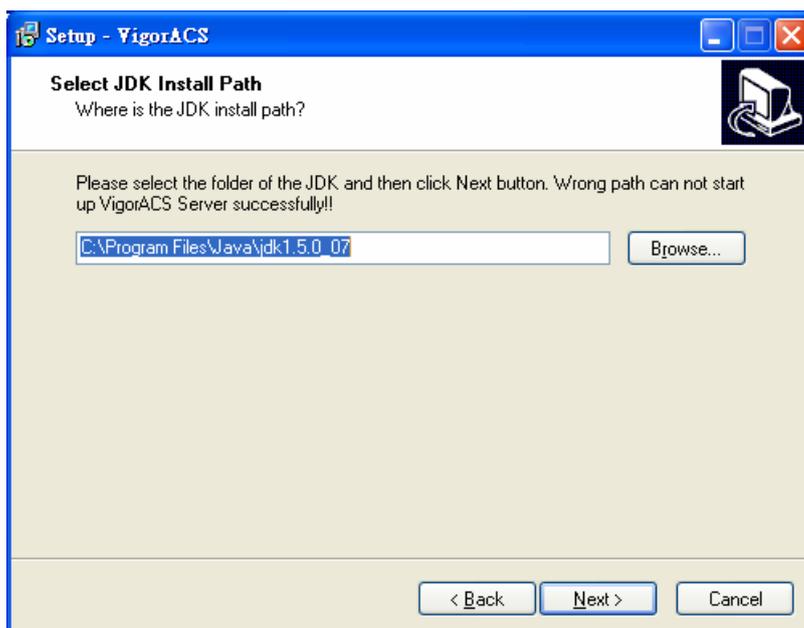
1. Locate ACS\ACS\setup.exe from CD and double click on it to execute the installation.



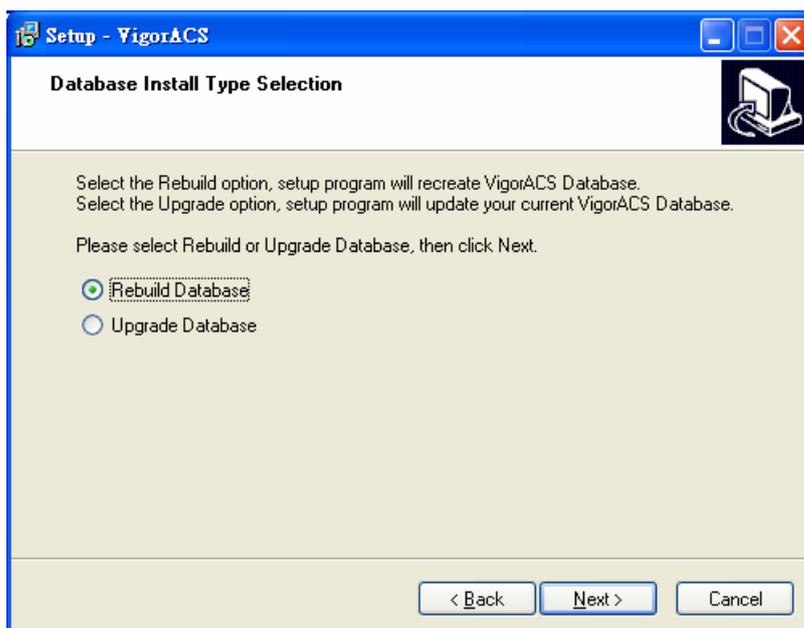
2. Select the directory that MySQL being installed (done in 1.1.2) and click **Next**.



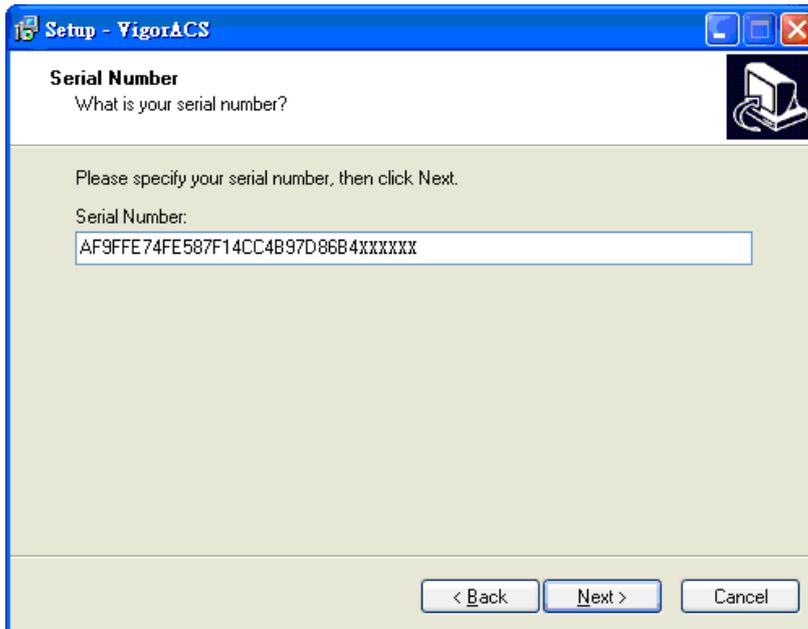
3. Select the directory that JDK being installed (done in 1.1.1) and click **Next**.



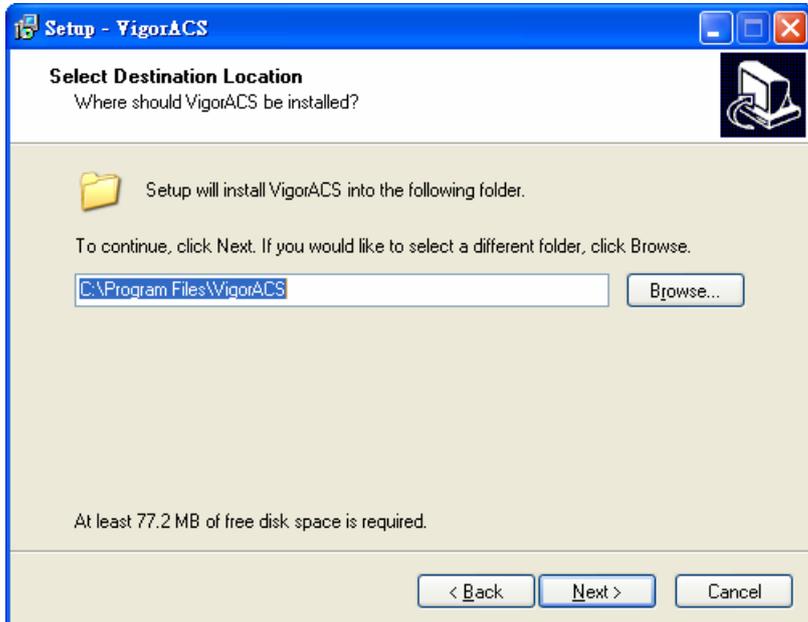
4. In this dialog box, choose **Rebuild Database** (for rebuilding the VigorACS database) or **Upgrade Database** (for upgrading the database) and click **Next**.



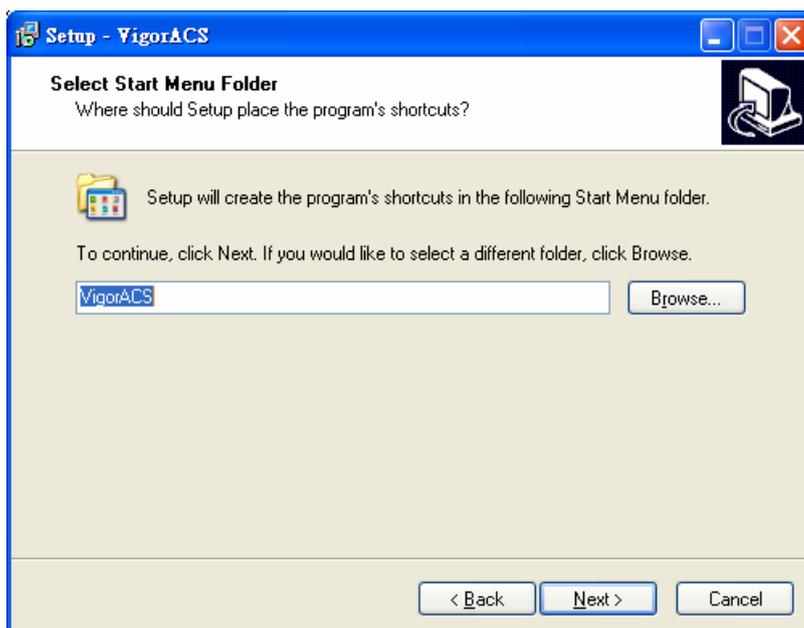
5. In the following dialog, type the serial number of VigorACS and then click **Next**. Please contact with your dealer to obtain the number.



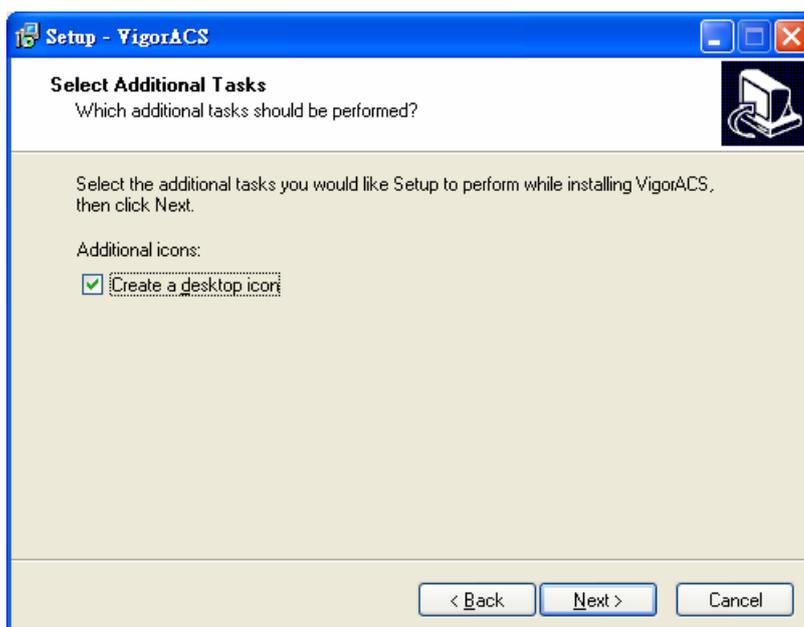
6. Determine the destination folder and click **Next**. The default directory is *c:\Program Files\VigorACS*. You can modify it if you want and please make sure the name of directory should not be over 100 characters, otherwise you might encounter problem of VigorACS in installation.



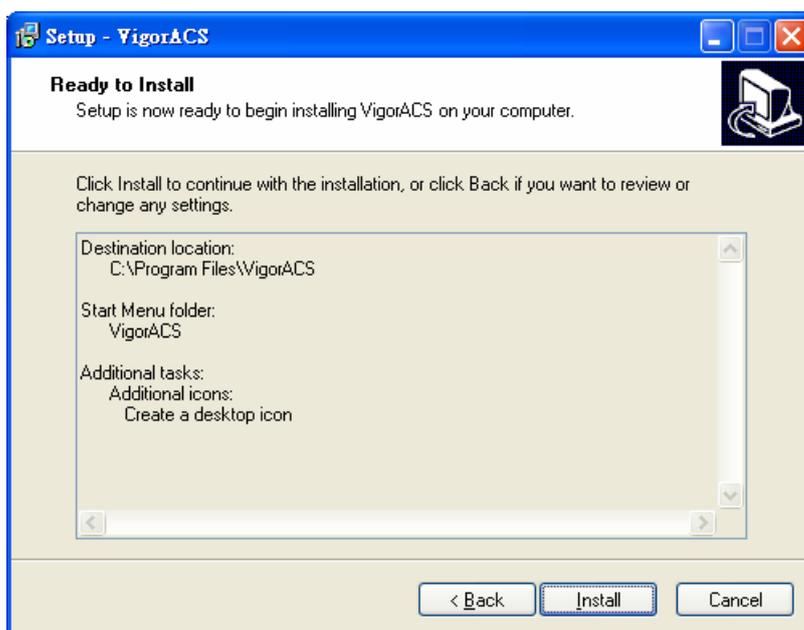
7. Determine the program name of VigorACS for you to start up. Then click **Next**.



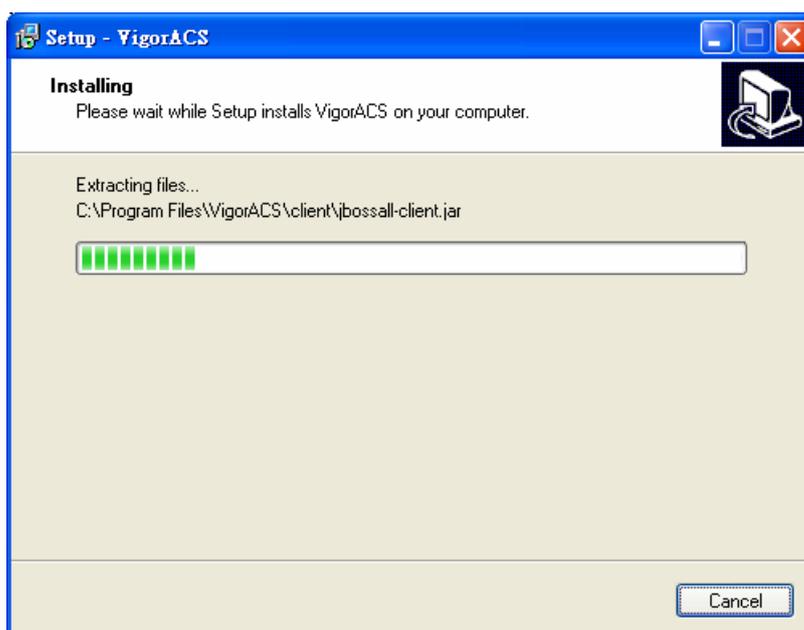
8. In this dialog, check the box of “**Create a desktop icon**” for your necessity. Click **Next**.



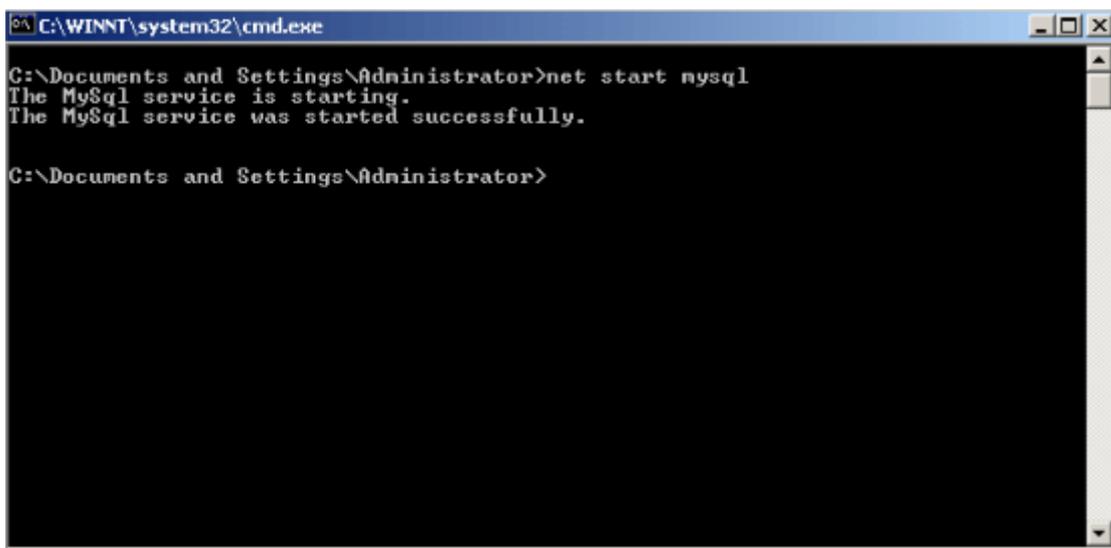
9. Now, the program is ready to install necessary features and files to your computer. Please click **Install** to start.



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



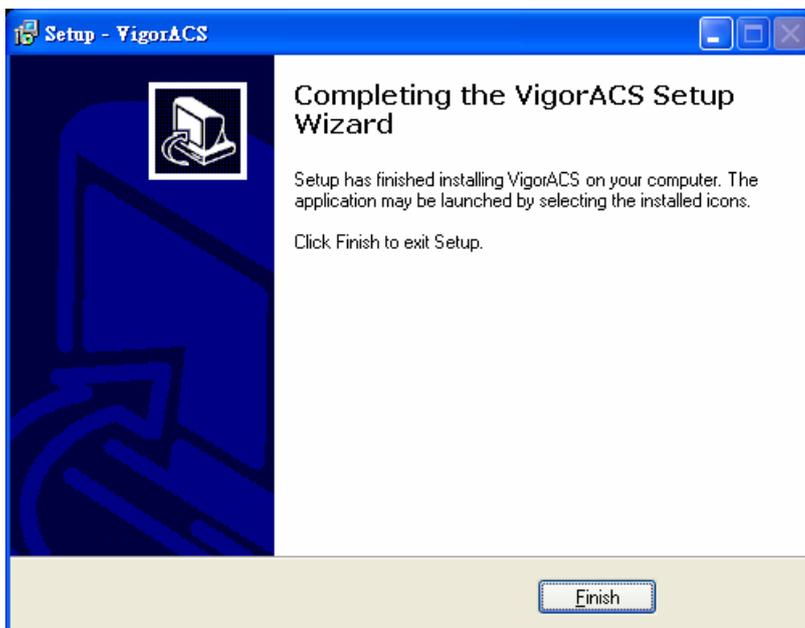
11. While installing, the following screen will appear to show that MySQL has been activated. Please wait for next dialog appearing.



```
C:\WINNT\system32\cmd.exe
C:\Documents and Settings\Administrator>net start mysql
The MySql service is starting.
The MySql service was started successfully.

C:\Documents and Settings\Administrator>
```

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



1.2 Platform for Unix

Follow the steps below.

1. Login Linux or Solaris with root or the root privilege.
2. Locate **VigorACS_Unix_Like_xxxxxx_xxxxx.tar.gz** from CD and copy it to your hard disk.
3. Decompress the setup packages

```
gzip -cd VigorACS_Unix_Like_xxxxxx_xxxxx.tar.gz |tar xvf -
```

```
drwxr-x--- 17 root    root      4096
drwxr-xr-x  2 root    root      8192
drwxr-xr-x  3 root    root      4096
drwxrwxrwt 18 root    root      4096
drwxr-xr-x 16 root    root      4096
drwxr-xr-x 28 root    root      4096
-rw-r--r--  1 root    root    185348096
[root@localhost ~]# rm vigoracs
rm: remove regular file 'vigoracs'? y
[root@localhost ~]# ls
bin boot dev etc home initrd lib lost+found misc mnt opt proc root sbin tftpboot tmp usr var
[root@localhost ~]# cd home/
[root@localhost home]# cd robin/
[root@localhost robin]# ls
vigoracs
[root@localhost robin]# cd vigoracs/
[root@localhost vigoracs]# ls
0.0.1.3 0.0.1.3.1
[root@localhost vigoracs]# cd 0.0.1.3.1/
[root@localhost 0.0.1.3.1]# ls
VigorACS_Unix_Like_Draytek_Pro_0.0.1.3.tar  VigorACS_Unix_Like_Draytek_Pro_0.0.1.3.tar.gz
[root@localhost 0.0.1.3.1]# ls
VigorACS_Unix_Like_Draytek_Pro_0.0.1.3.tar  VigorACS_Unix_Like_Draytek_Pro_0.0.1.3.tar.gz
[root@localhost 0.0.1.3.1]# ls
VigorACS_Unix_Like_Draytek_Pro_0.0.1.3.tar  VigorACS_Unix_Like_Draytek_Pro_0.0.1.3.tar.gz
[root@localhost 0.0.1.3.1]# gzip -cd VigorACS_Unix_Like_Draytek_Pro_0.0.1.3.tar.gz |tar xvf -
```

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

```
chmod 755 ./install.sh
```

```
chmod 755 ./uninstall.sh
```

```
linux/my.cnf
linux/mysql-standard-4.0.24-pc-linux-gnu-i686.tar.gz
solaris_8/coreutils-4.5.4-sol8-sparc-local.gz
solaris_8/jdk-1.5_0_07-solaris-sparc.tar.Z
solaris_8/jdk-1.5_0_07-solaris-sparcv9.tar.Z
solaris_8/libgcc-3.3-sol8-sparc-local.gz
solaris_8/libiconv-1.8-sol8-sparc-local.gz
solaris_8/my.cnf
solaris_8/mysql-4.0.21-sol8-sparc-local.gz
solaris_8/ncurses-5.4-sol8-sparc-local.gz
solaris_8/unzip-5.50-sol8-sparc-local.gz
solaris_9/coreutils-4.5.4-sol9-sparc-local.gz
solaris_9/jdk-1.5_0_07-solaris-sparc.tar.Z
solaris_9/jdk-1.5_0_07-solaris-sparcv9.tar.Z
solaris_9/libgcc-3.3-sol9-sparc-local.gz
solaris_9/libiconv-1.8-sol9-sparc-local.gz
solaris_9/my.cnf
solaris_9/mysql-4.0.21-sol9-sparc-local.gz
solaris_9/ncurses-5.4-sol9-sparc-local.gz
solaris_9/unzip-5.50-sol9-sparc-local.gz
uninstall.sh
vigoracs
vigoracsmysqld
[root@localhost 0.0.1.3.1]# chmod 755 ./install.sh
[root@localhost 0.0.1.3.1]# chmod 755 ./uninstall.sh
[root@localhost 0.0.1.3.1]#
```

5. Please make sure you have **/usr/bin/sh** first. If not, please do:

```
ln -s /bin/sh /usr/bin/sh
```

6. Execute the installation by entering the following.

```
./install.sh
```

```
solaris_8/libiconv-1.8-sol8-sparc-local.gz
solaris_8/my.cnf
solaris_8/mysql-4.0.21-sol8-sparc-local.gz
solaris_8/ncurses-5.4-sol8-sparc-local.gz
solaris_8/unzip-5.50-sol8-sparc-local.gz
solaris_9/coreutils-4.5.4-sol9-sparc-local.gz
solaris_9/jdk-1_5_0_07-solaris-sparc.tar.Z
solaris_9/jdk-1_5_0_07-solaris-sparcv9.tar.Z
solaris_9/libgcc-3.3-sol9-sparc-local.gz
solaris_9/libiconv-1.8-sol9-sparc-local.gz
solaris_9/my.cnf
solaris_9/mysql-4.0.21-sol9-sparc-local.gz
solaris_9/ncurses-5.4-sol9-sparc-local.gz
solaris_9/unzip-5.50-sol9-sparc-local.gz
uninstall.sh
vigoracs
vigoracsmysqld
[root@localhost 0.0.1.3.1]# chmod 755 ./install.sh
[root@localhost 0.0.1.3.1]# chmod 755 ./uninstall.sh
[root@localhost 0.0.1.3.1]# ./install.sh

entering /home/robin/vigoracs/0.0.1.3.1/linux.....

Please create /usr/local/vigoracs
Create it now? (y/n)
y_
```

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

1. Install library: libgcc coreutils libiconv ncurses install (required by MySQL installation)
 2. Install mysql
 3. Install java
 4. Install VigorACS (It will build one mysql database: snmpdb)
 5. Upgrade VigorACS (It will upgrade snmpdb database)
 6. Exit
- input select num:

For Linux System

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 :

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.

2

Starting VigorACS

2.1 Overview

The procedures of starting up VigorACS:

- Start MySQL Database
- Start VigorACS
- Change Bind IP of VigorACS if necessary

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

2.2 For Windows 2000 or XP

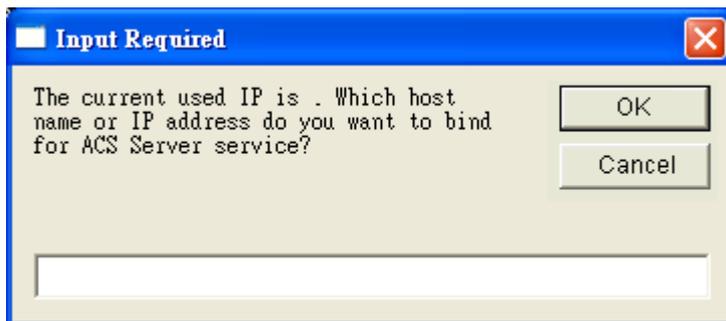
2.2.1 Start MySQL Database

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 activated. If not, please double click it to enable.

2.2.2 Start VigorACS

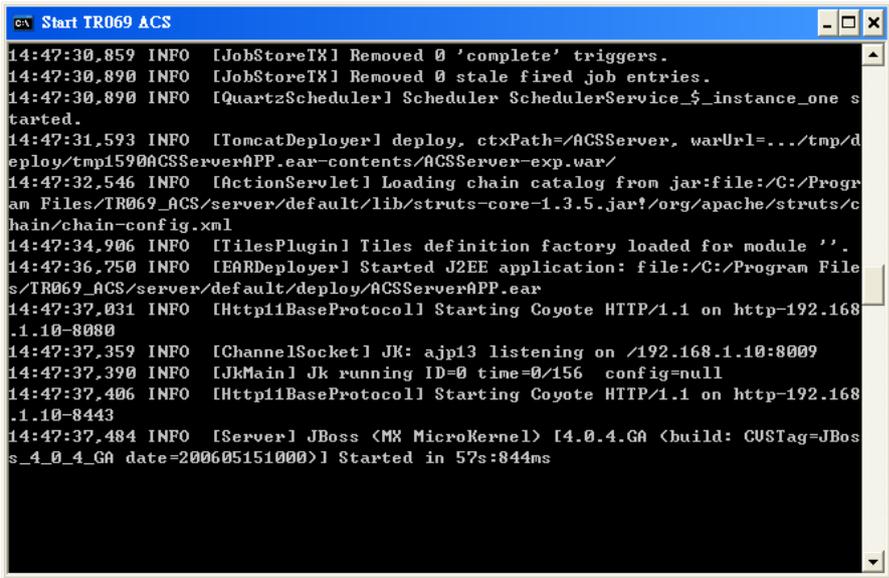
Click **Programs-> VigorACS ->Start VigorACS** to startup VigorACS.

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).



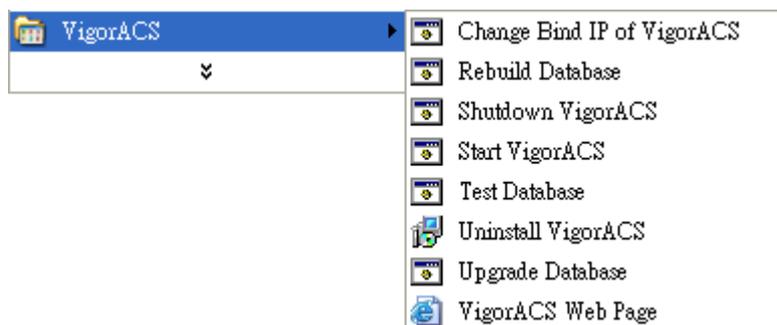
Please type the server IP and click **OK**.

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

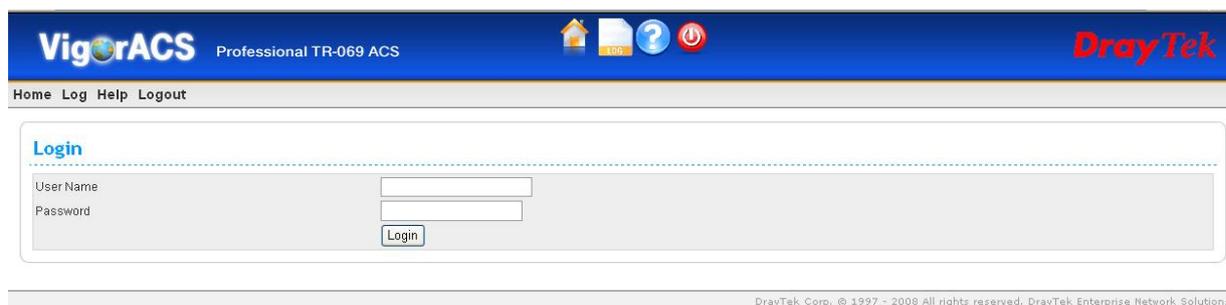


```
ca Start TR069 ACS
14:47:30.859 INFO [JobStoreTX] Removed 0 'complete' triggers.
14:47:30.890 INFO [JobStoreTX] Removed 0 stale fired job entries.
14:47:30.890 INFO [QuartzScheduler] Scheduler SchedulerService_$_instance_one s
started.
14:47:31.593 INFO [TomcatDeployer] deploy, ctxPath=/ACSServer, warUrl=../tmp/d
eploy/tmp1590ACSServerAPP.ear-contents/ACSServer-exp.war/
14:47:32.546 INFO [ActionServlet] Loading chain catalog from jar:file:/C:/Progr
am Files/TR069_ACS/server/default/lib/struts-core-1.3.5.jar!/org/apache/struts/c
hain/chain-config.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/server/default/deploy/ACSServerAPP.ear
14:47:37.031 INFO [Http1BaseProtocol] 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 [Http1BaseProtocol] 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 date=200605151000)] Started in 57s:844ms
```

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



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

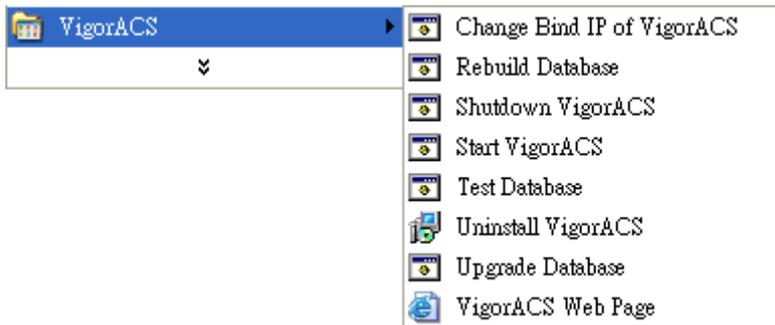


Please type “**root**” as user name and “**admin123**” as password. Then click **Login**.

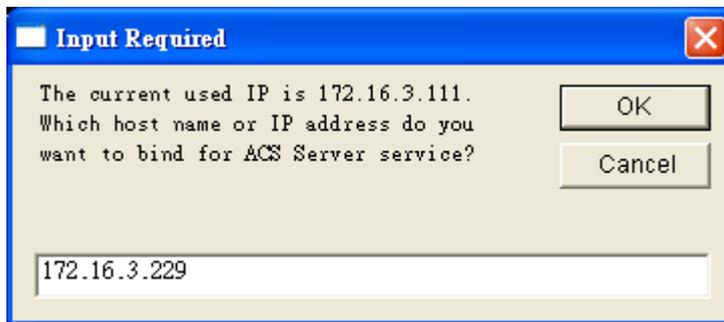
2.2.3 Change Bind IP of VigorACS

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.



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**.



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

2.3 For Solaris or Linux

2.3.1 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 :
5
[root@localhost 0.0.1.3.1]# /usr/local/vigoracs/VigorACS/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 :

```

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.

2.3.2 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.

```

# http://developer.java.sun.com/developer/bugParade/bugs/4465334.html
done
fi
"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 :
3
Which ip address do you want to bind for VigorACS service < x.x.x.x or Enter for bind localhost.localdomain server?>
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.

2.3.3 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

Configuration on CPE Device

3.1 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 to 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 enter 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.



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

System Maintenance >> TR-069 Setting

ACS and CPE Settings

ACS Server	
URL	http://172.17.3.227:8080/ACSServer/services/ACSServlet
Username	acs
Password	*****
CPE Client	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
URL	http://172.17.3.228:8069/cwrm/CRN.html
Port	8069
Username	vigor
Password	*****

Periodic Inform Settings

Disable Enable

Interval Time second(s)

OK

- If the connected CPE needs to be authorized, 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 authorized please set URL as the following:
http://{ IP address of VigorACS}:8080/ACSServer/services/UnAuthACSServlet
 - If the connected CPE needs to be authorized 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 does not needs to be authorized 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 authorize. Please type as the following:
Username: *acs*
Password: *password*
 6. For the username and password of CPE, it is not necessary for you to type them. Refer to section 3.2 for detailed information.

3.2 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 of 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**.
4. Check **Allow management from the Internet** to set management access control.

Management Setup

Management Access Control

Allow management from the Internet

FTP Server

HTTP Server

HTTPS Server

Telnet Server

SSH Server

Disable PING from the Internet

Access List

List	IP	Subnet Mask
1	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	<input type="text"/>

Management Port Setup

User Define Ports Default Ports

Telnet Port (Default: 23)

HTTP Port (Default: 80)

HTTPS Port (Default: 443)

FTP Port (Default: 21)

SSH Port (Default: 22)

SNMP Setup

Enable SNMP Agent

Get Community

Set Community

Manager Host IP

Trap Community

Notification Host IP

Trap Timeout seconds

OK

3.3 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) Mode
MPoA (RFC1483/2684) Enable Disable

WAN IP Network Settings
 Obtain an IP address automatically
Router Name *
Domain Name *
*: Required for some ISPs
 Specify an IP address
IP Address
Subnet Mask
Gateway IP Address
 Default MAC Address
 Specify a MAC Address

DSL Modem Settings
Multi-PVC channel
Encapsulation
VPI
VCI
Modulation

RIP Protocol
 Enable RIP

3.4 Set Authority for CPE on ACS

1. Please login VigorACS by entering username and password. The default values are:

User Name: root

Password: admin123

VigorACS Professional TR-069 ACS **DrayTek**

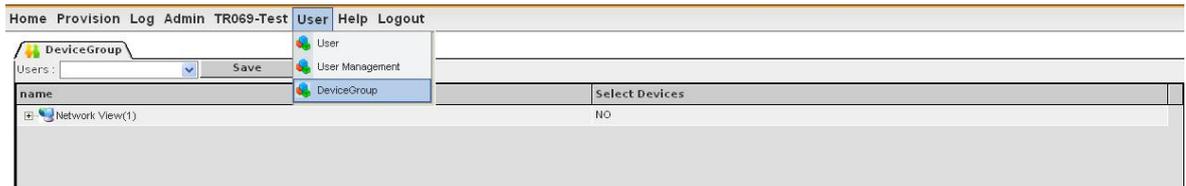
Home Log Help Logout

Login

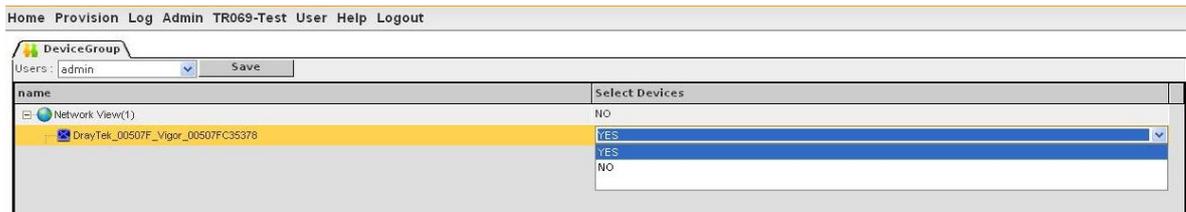
User Name
Password

DrayTek Corp. © 1997 - 2008 All rights reserved. DrayTek Enterprise Network Solutions.

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



3. Use the drop down list to choose a user. Then you can select devices or networks be managed by the selected user, with clicking on the “+”, and choose from the drop down list..

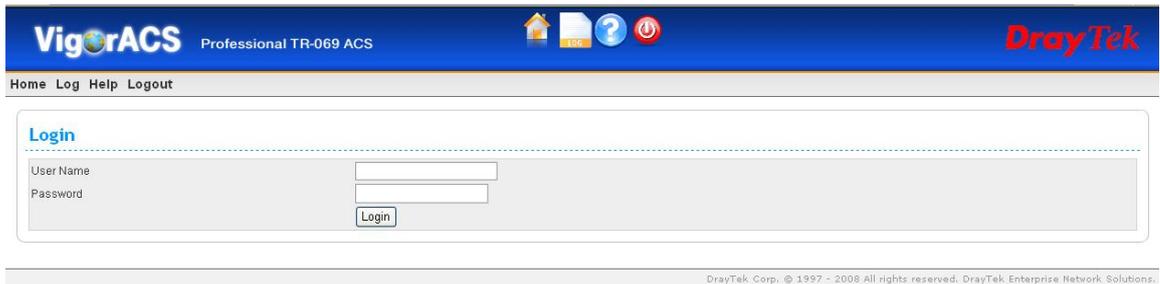


3.5 Set Username and Password for CPE on ACS

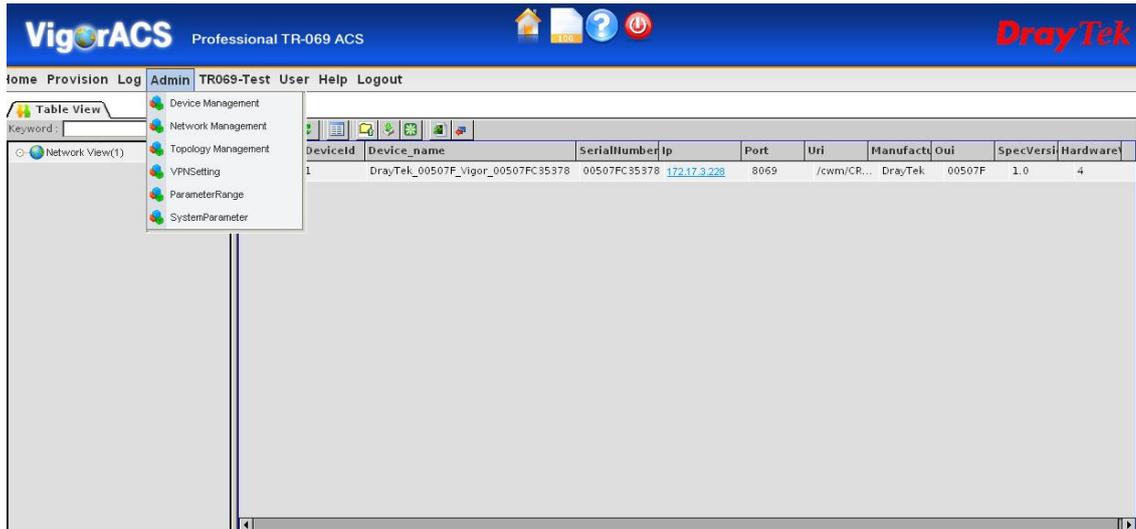
1. Please login VigorACS by entering username and password. The default values are:

User Name: root

Password: admin123



- Click **Admin** tab, click on the **Device Management** tab.



- Click the device listed on right side that you want to manage. The relational device information will be shown on the screen and been highlight. Please change the user name and password, then choose **Enable** from the drop down list of **Status**.

DeviceId	Device_name	Seriallumber	Address	Ip	Port	Uri	UserName	Password	Status	DeviceType
1	DrayTek_00507F_Vigor_00507FC35378	00507FC35378		172.17.3.228	8069	/cwm/CRN.ht	vigor	password	Enable	Tr069

- 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.

System Maintenance >> TR-069 Setting

ACS and CPE Settings

ACS Server

URL:

Username:

Password:

CPE Client

Enable Disable

URL:

Port:

Username:

Password:

Periodic Inform Settings

Disable Enable

Interval Time: second(s)

OK



Troubleshooting

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.

```
CA
at org.jboss.web.tomcat.tc5.Tomcat5.startConnectors(Tomcat5.java:549)
at org.jboss.web.tomcat.tc5.Tomcat5.handleNotification(Tomcat5.java:586)

at sun.reflect.GeneratedMethodAccessor4.invoke(Unknown Source)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccess
sorImpl.java:25)
at java.lang.reflect.Method.invoke(Method.java:585)
at org.jboss.mx.notification.NotificationListenerProxy.invoke(NotificationLi
onListenerProxy.java:153)
at $Proxy27.handleNotification(Unknown Source)
at org.jboss.mx.util.JBossNotificationBroadcasterSupport.handleNotificat
ion(JBossNotificationBroadcasterSupport.java:127)
at org.jboss.mx.util.JBossNotificationBroadcasterSupport.sendNotificatio
n(JBossNotificationBroadcasterSupport.java:108)
at org.jboss.system.server.ServerImpl.sendNotification(ServerImpl.java:9
08)

at org.jboss.system.server.ServerImpl.doStart(ServerImpl.java:497)
at org.jboss.system.server.ServerImpl.start(ServerImpl.java:362)
at org.jboss.Main.boot(Main.java:200)
at org.jboss.Main$1.run(Main.java:464)
at java.lang.Thread.run(Thread.java:595)
11:45:51.484 INFO [Server] JBoss (MX MicroKernel) [4.0.4.GA (build: CUSTag=JBos
s_4_0_4_GA date=200605151000)] Started in 1m:6s:359ms
```