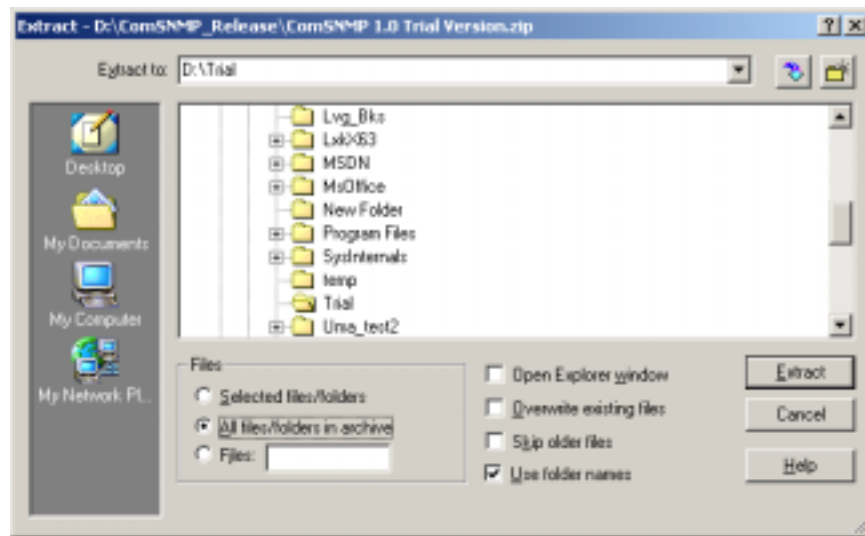


Trial Product Tutorial

The objective of this paper is to help ComSNMP 1.0 Trial Users get started and going with our ComSNMP 1.0 Trial version of the product.

Preparation:

Unzip the contents of ComSNMP1.0TrialVersion.zip (1) Check option “All files/folders in the archive” (2) Check option “Use folder names” as in this example:



ComSNMP Trial Product Installation:

Refer to the Trial Version Programmer’s Guide Section 3.2.

Agent Installation:

In this section we will show you how to Install, Configure and run the net-snmp 5.0.8 agent. Note that this is an open source agent which we have tested against and recommend you to use for trial purposes. The rationale behind this is (a) net-snmp is well tested on Windows platform (b) easy to install, configure and run (c) is a free product. Of course you can use your own agent simulator or a host/device based agent if you would like to.

Install:

Copy the snmpd.exe program to a desired directory for example: D:\NetSNMP_Agent

Configure:

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<http://www.snmp-component.com>

<http://www.rigconsulting.com>

Place a file by name `snmpd.conf` in text format by editing using a text editor like notepad in the `<drive>:\USR\SHARE\SNMP` directory with the following contents. This simplified example defines the VACM rules for user “test” for testing v3.

```
rwuser test
#   sec.name source      community
com2sec test 192.168.15.100 public
####
# Second, map the security names into group names:
#           sec.model sec.name
group MyRWGroup v1 test
group MyRWGroup v2c test
group MyRWGroup usm test
####
# Third, create a view for us to let the groups have rights to:
#   incl/excl subtree      mask
view all included .1      80
####
# Finally, grant the 2 groups access to the 1 view with different
# write permissions:
#   context sec.model sec.level match read write notif
access MyROGroup "" any noauth exact all none none
access MyRWGroup "" any noauth exact all all none
access MyRWGroup "" usm noauthNoPriv exact all all none
access MyRWGroup "" usm authNoPriv exact all all none
access MyRWGroup "" usm authPriv exact all all none
```

Place a file by name `snmpd.conf` in the `<drive>:\USR\SHARE\PERSIST` directory with the following contents. This allows the agent to create a USM based profile for user “test” with SHA authentication password “password” and security using DES encryption password “1234567890abcdef”.

```
#
# net-snmp (or ucd-snmp) persistent data file.
#
# DO NOT STORE CONFIGURATION ENTRIES HERE.
# Please save normal configuration tokens for snmpd in SNMPCONFPATH/snmpd.conf.
# Only "createUser" tokens should be placed here by snmpd administrators.
#
engineBoots 3
oldEngineID 0x800007e580d24600009b4eca41
rwuser test
createUser test SHA password DES 1234567890abcdef
```

Run:

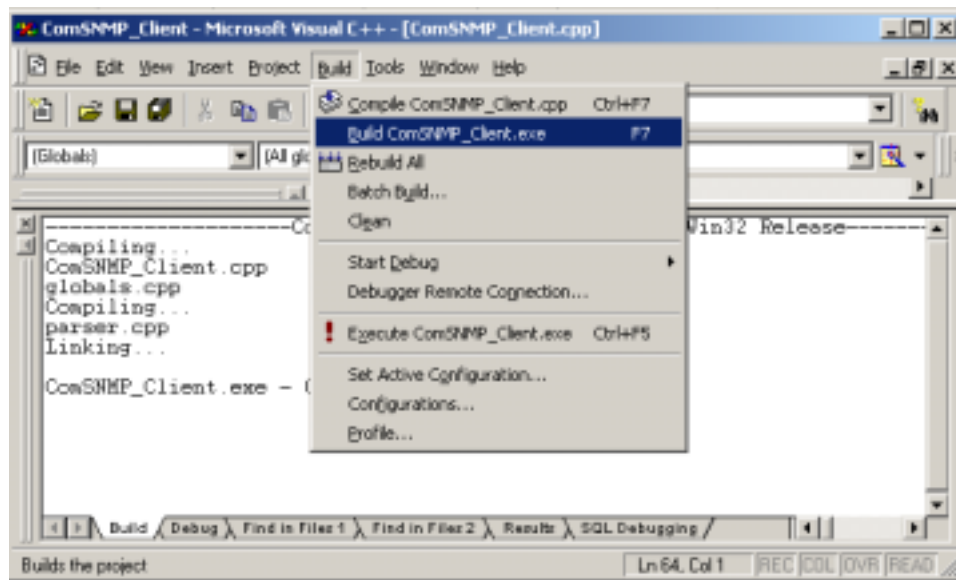
To run the agent type

```
< D:\NetSNMP_Agent>snmpd -f -L -Dread-config
```

ComSNMP Client Program (C++):

Here we show you how to build and run our sample ComSNMP client program. This is the program whose code you will mimic in your NMS product to use ComSNMP. Locate the ComSNMP_Client.dsw in the following directory

D:\ComSNMP_Release\TrialVersion\VC-Trilingual-Sample\). This directory will be the work directory to run the client program. Open the workspace file using Microsoft Visual C++ 6.0 IDE. Click on Build | Build ComSNMP_Client.exe. Then copy the executable created to the work directory.

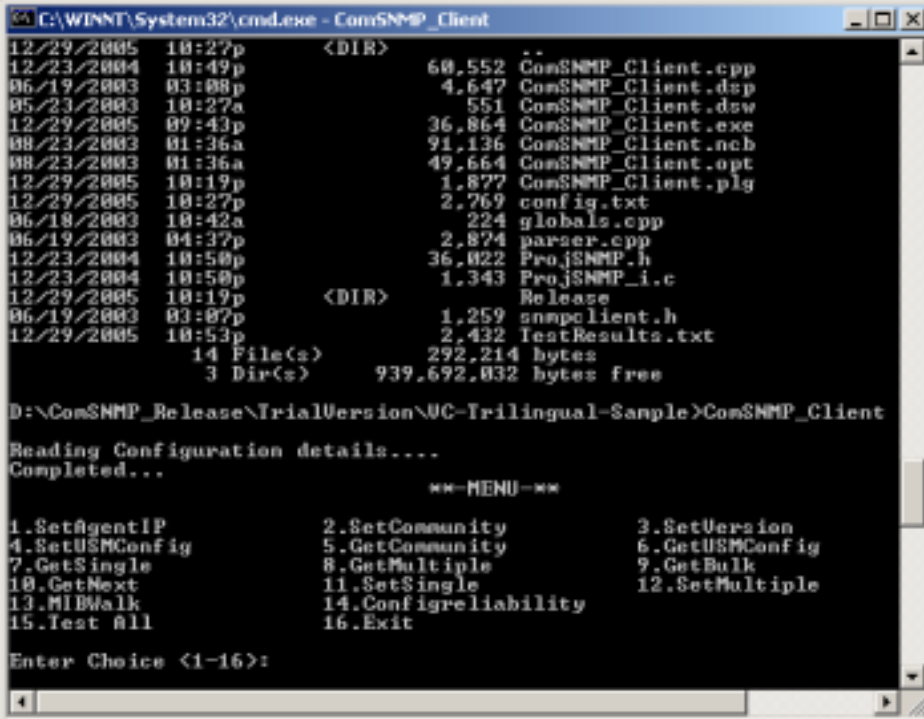


Locate the file config.txt in work directory. Depending on whether you are testing v1, v2c or v3, use contents from

D:\ComSNMP_Release\TrialVersion\TestingTrial\sample_v1_config.txt, sample_v2_config.txt and sample_v3_config.txt respectively. These are sample configuration contents used for the automated testing of ComSNMP which makes it easy for the user to specify the input and then run the client program which looks up this file for input values. **Make sure the log file specified in the config.txt file uses an existing directory. OIDs need to be specified using the complete dotted notation including the “.0” suffix. Omitting this will result in error code being returned by ComSNMP. Since ComSNMP is based on net-snmp source, the IP Address for an agent on a local host needs to be specified not the loop back address 127.0.0.1**

Start the client program from the command line:

```
D:\ComSNMP_Release\TrialVersion\VC-Trilingual-Sample>ComSNMP_Client
```



```
C:\WINNT\System32\cmd.exe - ComSNMP_Client
12/29/2005 10:27p <DIR>
12/23/2004 10:49p 60,552 ComSNMP_Client.cpp
06/19/2003 03:08p 4,647 ComSNMP_Client.dsp
05/23/2003 10:27a 551 ComSNMP_Client.dsw
12/29/2005 09:43p 36,864 ComSNMP_Client.exe
08/23/2003 01:36a 91,136 ComSNMP_Client.ncb
08/23/2003 01:36a 49,664 ComSNMP_Client.opt
12/29/2005 10:19p 1,877 ComSNMP_Client.plg
12/29/2005 10:27p 2,769 config.txt
06/18/2003 10:42a 224 globals.cpp
06/19/2003 04:37p 2,874 parser.cpp
12/23/2004 10:50p 36,022 ProjSNMP.h
12/23/2004 10:50p 1,343 ProjSNMP_i.c
12/29/2005 10:19p <DIR> Release
06/19/2003 03:07p 1,259 snmpclient.h
12/29/2005 10:53p 2,432 TestResults.txt
14 File(s) 292,214 bytes
3 Dir(s) 939,692,032 bytes free

D:\ComSNMP_Release\TrialVersion\VC-Trilingual-Sample>ComSNMP_Client

Reading Configuration details....
Completed...

**MENU**

1.SetAgentIP          2.SetCommunity        3.SetVersion
4.SetUSMConfig        5.GetCommunity        6.GetUSMConfig
7.GetSingle           8.GetMultiple         9.GetBulk
10.GetNext            11.SetSingle          12.SetMultiple
13.MIBWalk            14.Configreliability
15.Test All           16.Exit

Enter Choice <1-16>:
```

Use the menu to run the tests.

ComSNMP Client Program (VB):

Invoke the program Proj_ys_snmp_mgr from the command line as follows:

D:\ComSNMP_Release\TrialVersion\VB-Trilingual-Sample>Proj_ys_snmp_mgr

Use the GUI to perform the tests:

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<http://www.snmp-component.com>

<http://www.rigconsulting.com>

The screenshot shows the 'ComSNMP 1.0 Testing Tool - Rig Consulting Inc.' window. It is divided into three main sections: Parameters, Action, and Result.

Parameters: This section contains several input fields and dropdown menus for configuring the SNMP test. The values are as follows:

Field	Value
Version	v3
Community String	public
SNMP Agent	10.0.2.10
Agent Port	161
User Name	test
Security Level	NoAuthNoPriv
Authentication	MD5
Auth Passwd	*****
Privacy	DES
Priv Password	****
Timeout (Sec)	5
Retries	1

Action: This section is for selecting the type of SNMP operation to perform. It features a large empty text area labeled 'Object Identifiers:'. To the right of this area is a list of radio button options:

- Get Single
- Get Multiple
- Get Bulk
- Get Next
- Mib Walk
- Set Single
- Set Multiple

Below the radio buttons are two buttons: 'Run' and 'Exit'.

Result: This section is a large empty rectangular area intended for displaying the output of the test.