

## How to use SNMP to set SNMP Community on DGS-3100

There are 4 steps, which contain 3 MIB files need to configure, please check the following:  
You can see the sniffer packet of this setting:



DGS3100snmp-v2c-community.zip

Step 1) At [SNMP-COMMUNITY-MIB](#), there are 5 values need to configure:

```
snmpset -v2c -c private 10.90.90.90 snmpCommunityName.83.83.78.82.45.116.101.115.116.0.0.0 s test
snmpCommunitySecurityName.83.83.78.82.45.116.101.115.116.0.0.0 x 534E522D7465737400000000
snmpCommunityContextEngineID.83.83.78.82.45.116.101.115.116.0.0.0 x 0000000001
snmpCommunityTransportTag.83.83.78.82.45.116.101.115.116.0.0.0 x 496E522D746573740000000000000000
snmpCommunityStatus.83.83.78.82.45.116.101.115.116.0.0.0 i 4
```

!!! NOTE: those values marked **PURPLE** means they are **FIXED**, you need to use it when configure DGS-3100 and cannot change it, those marked **purple** are also **FIXED** at the following steps) !!!

- 1.1) 116.101.115.116 = the ASCII Code of "test"
- 1.2) 534E522D7465737400000000 = the hex of "SNR-test", the "SNR-" is also the FIXED value when configure DGS-3100;  
"534E522D" is the hex of "SNR-"  
"74657374" is the hex of "test";  
"00000000" is the reserved value of DGS-3100.
- 1.3) 0000000001 = the hex of SNMP Engine ID, it's a default value of Engine ID.
- 1.4) 496E522D746573740000000000000000 = the hex of "InR-test", the "InR-" is also the FIXED value when configure DGS-3100;  
"496E522D" is the hex of "InR-"  
"74657374" is the hex of "test"  
"0000000000000000" is the reserved value of DGS-3100.
- 1.5) 4 = the integer of command "createAndGo(4)"

See attached document for [SNMP-COMMUNITY-MIB](#) and its description:



SNMP-COMMUNITY-MIB.zip

Step 2) At [SNMP-TARGET-MIB](#), there are 5 values need to configure:

(the last 1 value "snmpTargetAddrTMask" are part of [SNMP-COMMUNITY-MIB](#))

```
snmpset -v2c -c private 10.90.90.90 snmpTargetAddrTAddress.73.110.82.45.0.0.0.0.116.101.115.116 x 0000000000A1
snmpTargetAddrTDomain.73.110.82.45.0.0.0.0.116.101.115.116 o 1.3.6.1.6.1.1
snmpTargetAddrTagList.73.110.82.45.0.0.0.0.116.101.115.116 x 496E522D746573740000000000000000
snmpTargetAddrParams.73.110.82.45.0.0.0.0.116.101.115.116 x 496E522D0000000074657374
snmpTargetAddrTMask.73.110.82.45.0.0.0.0.116.101.115.116 x 00000000FFFF
```

**!!! NOTE: those values marked PURPLE means they are FIXED, you need to use it when configure DGS-3100 and cannot change it, those marked purple are also FIXED at the following steps) !!!**

- 2.1) 116.101.115.116 = the ASCII Code of "test"
- 2.2) 0000000000A1 = a transport address, the format depends on the value of the snmpTargetAddrTDomain object.
- 2.3) 1.3.6.1.6.1.1 = the transport type of the address, it's snmpUDPDomain.
- 2.4) 496E522D746573740000000000000000 = the hex of "InR-test", the "InR-" is also the FIXED value when configure DGS-3100;  
"496E522D" is the hex of "InR-"  
"74657374" is the hex of "test"  
"0000000000000000" is the reserved value of DGS-3100.
- 2.5) 496E522D0000000074657374 = the hex of "InR-00000000test", The identified entry contains SNMP parameters to be used when generating messages to be sent to this transport address.  
"496E522D" is the hex of "InR-"  
"00000000" is the reserved value of DGS-3100.  
"74657374" is the hex of "test"
- 2.6) 00000000FFFF = The value of this object must have the same length as the corresponding instance of snmpTargetAddrTAddress

See attached document for [SNMP-TARGET-MIB](#) and its description:



SNMP-TARGET-MI  
B.zip

Step 3) At [SNMP-VIEW-BASED-ACM-MIB](#) => `vacmSecurityToGroupTable`, there are 2 values, 2 prefixes (see the underlines “1” and “2”) need to configure:

```
snmpset -v2c -c private 10.90.90.90 vacmGroupName.1.12.83.78.82.45.116.101.115.116.0.0.0.0 x 565F534E522D7465737400000000
vacmSecurityToGroupStatus.1.12.83.78.82.45.116.101.115.116.0.0.0.0 i 4

snmpset -v2c -c private 10.90.90.90 vacmGroupName.2.12.83.78.82.45.116.101.115.116.0.0.0.0 s 565F534E522D7465737400000000
vacmSecurityToGroupStatus.2.12.83.78.82.45.116.101.115.116.0.0.0.0 i 4
```

**!!! NOTE: those values marked PURPLE means they are FIXED, you need to use it when configure DGS-3100 and cannot change it, those marked purple are also FIXED at the following steps) !!!**

3.1) 116.101.115.116 = the ASCII Code of “test”

3.2) 565F534E522D7465737400000000 = the ASCII Code of “V\_SNR-test”

“565F534E522D” is the hex of “V\_SNR-”

“74657374” is the hex of “test”

“00000000” is the reserved value of DGS-3100.

3.3) 4 = the integer of command “createAndGo(4)”

See attached document for [SNMP-VIEW-BASED-ACM-MIB](#) and its description:



SNMP-VIEW-BASE  
D-ACM-MIB.zip

Step 4) At **SNMP-VIEW-BASED-ACM-MIB** => **vacmAccessTable**, there are 5 values, 2 prefixes (see the underlines "1" and "2") need to configure:

```
snmpset -v2c -c private 10.90.90.90 vacmAccessContextMatch.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.1.1 i 2
vacmAccessReadViewName.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.1.1 s DefaultSuper
vacmAccessWriteViewName.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.1.1 s DefaultSuper
vacmAccessNotifyViewName.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.1.1 s DefaultSuper
vacmAccessStatus.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.1.1 i 4
```

```
snmpset -v2c -c private 10.90.90.90 vacmAccessContextMatch.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.2.1 i 2
vacmAccessReadViewName.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.2.1 s DefaultSuper
vacmAccessWriteViewName.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.2.1 s DefaultSuper
vacmAccessNotifyViewName.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.2.1 s DefaultSuper
vacmAccessStatus.14.86.95.83.78.82.45.116.101.115.116.0.0.0.0.0.2.1 i 4
```

**!!! NOTE: those values marked PURPLE means they are FIXED, you need to use it when configure DGS-3100 and cannot change it, those marked purple are also FIXED at the following steps) !!!**

4.1) **116.101.115.116** = the ASCII Code of "test"

4.2) **DefaultSuper** = the View Name you want to add in

4.3) **4** = the integer of command "createAndGo(4)"