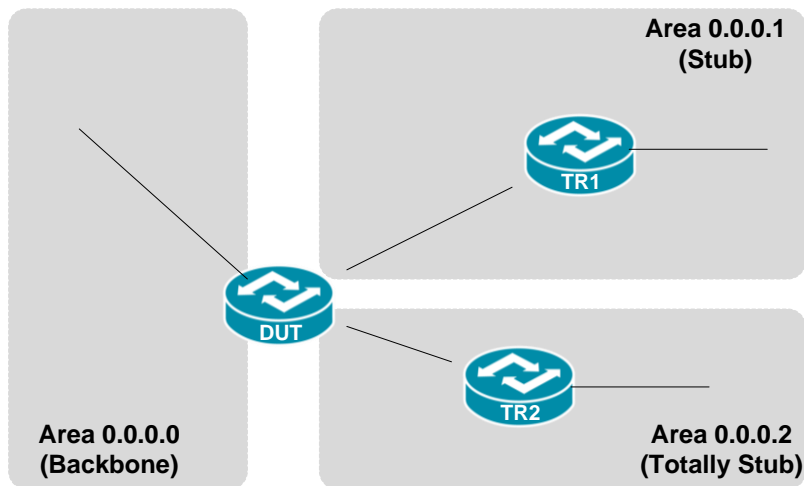# How to use SNMP to delete OSPF Area

Created at 2011/05/31

Introduction

Simple Network Management Protocol (SNMP) is a widely used protocol for monitoring the health and welfare of network equipment.

Topology

There are three OSPF areas (0.0.0.0, 0.0.0.1 and 0.0.0.2) in this topology.

OID

ospfAreaStatus

Name: ospfAreaStatus
Type: OBJECT-TYPE
OID: 1.3.6.1.2.1.14.2.1.10
Full path: iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ospf(14).ospfAreaTable(2).ospfAreaEntry(1).ospfAreaStatus(10)
Module: OSPF-MIB

Parent: ospfAreaEntry
Prev sibling: ospfAreaSummary

Numerical syntax: Integer (32 bit)
Base syntax: INTEGER
Composed syntax: RowStatus
Status: current
Max access: read-create

Description: This variable displays the status of the en-
                  try. Setting it to 'invalid' has the effect of
                  rendering it inoperative. The internal effect
                  (row removal) is implementation dependent.

Step-by-Step

I.   SNMP Command

- Blue color is OSPF area ID

snmpset -v 2c -c private <DUT IP> 1.3.6.1.2.1.14.2.1.10.0.0.0.1 i 6

II.   Result

```
C:\>snmpset -v 2c -c private -m ALL 10.90.90.91 1.3.6.1.2.1.14.2.1.10.0.0.0.1 i
6
OSPF-MIB::ospfAreaStatus.0.0.0.1 = INTEGER: destroy(6)
```

Area 0.0.0.1 has been deleted via SNMP.

- OSPF area status on device

```
DGS-3627:admin#show ospf area
Command: show ospf area

OSPF Area Settings

Area ID          Type   Stub Import Summary LSA Stub Default Cost Translate
---------------  ------ -------------------- ----------------- ---------
0.0.0.0          Normal None                 None              None
0.0.0.2          Stub   Disabled             1                 None

Total Entries : 2
```

It remains two areas in this device.

Reference

- This example is made by DGS-3600 series in firmware R 2.80.B61.
- SNMP Tools is Net-SNMP.