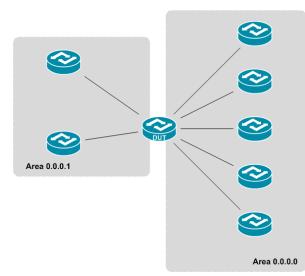
# How to use SNMP to get OSPF Area ID

Created at 2011/05/30

# Introduction

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

# Topology



There are two OSPF area (0.0.0.0 and 0.0.0.1) in this topology, the DUT is an area border router which attach to both of area.

# OID

Name:	ospfAreald
Type:	OBJECT-TYPE
OID:	1.3.6.1.2.1.14.2.1.1
Full path:	iso(1).org(3).dod(6).internet(1).mgmt(2).mib-2(1).ospf(14).ospfAreaTable(2).ospfAreaEntry(1).ospfAreald(1)
Module:	OSPF-MIB
Parent:	ospfAreaEntry
Next sibling:	ospfAuthType
Numerical syntax:	IP Address
Base syntax:	IpAddress
Composed syntax:	AreaID
Status:	current
Max access:	read-only
Reference:	OSPF Version 2, Appendix C.2 Area parameters
Description:	A 32-bit integer uniquely identifying an area. Area ID 0.0.0.0 is used for the OSPF backbone.

# Step-by-Step

#### I. SNMP Command

snmpwalk -v 2c -c private <DUT IP> 1.3.6.1.2.1.14.2.1.1

### II. Result

C:\>snmpwalk -v 2c -c private -m ALL 10.90.90.91 1.3.6.1.2.1.14.2.1.1 OSPF-MIB::ospfAreaId.0.0.0.0 = IpAddress: 0.0.0.0 OSPF-MIB::ospfAreaId.0.0.0.1 = IpAddress: 0.0.0.1

We can see the DUT attach to backbone area and 0.0.0.1.

### Reference

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