

How to get **Port Status of Dynamic Link Aggregation Group** via NETSNMP in **DGS-3627?**

The OIDs are defined in **“DGS3627-L2MGMT-MIB”**.

swL2TrunkCtrlTable (1.3.6.1.4.1.171.11.70.6.2.9.3)

Object name	swL2TrunkCtrlTable
Object ID	1.3.6.1.4.1.171.11.70.6.2.9.3
Module	DGS3627-L2MGMT-MIB
Base syntax	Sequence Of swL2TrunkCtrlEntry
Access	Not_Accessible
Status	Current
Sequence	1:swL2TrunkIndex - Integer 2:swL2TrunkMasterPort - Integer 3:swL2TrunkMember - Octet String 4:swL2TrunkFloodingPort - Integer 5:swL2TrunkType - Integer 6:swL2TrunkState - Integer 7:swL2TrunkActivePorts - Octet String
Parent node	swL2TrunkMgmt
First child	swL2TrunkCtrlEntry
Description	This table specifys which ports group a set of ports(up to 8) into a single logical link.

1) Group ID

swL2TrunkIndex (1.3.6.1.4.1.171.11.70.6.2.9.3.1.1) – Integer

⇒ Integer = Group ID

For example:

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3.1.1
```

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.1.1 = INTEGER: 1

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.1.2 = INTEGER: 2

Description:

There are two groups, ID is 1 and 2.

2) Master Port Number

swL2TrunkMasterPort (1.3.6.1.4.1.171.11.70.6.2.9.3.1.3) - **Integer**

⇒ Integer = Master Port Number

For example:

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3.1.3
```

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.3.1 = INTEGER: 1

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.3.2 = INTEGER: 3

Description:

#The master port of the **group ID 1** is port **1**.

#The master port of the **group ID 2** is port **3**

3) Member Port List

swL2TrunkMember (1.3.6.1.4.1.171.11.70.6.2.9.3.1.4) - **Octet String**

⇒ Octet String = Member Port List

For example:

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3.1.4
```

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.4.1 = Hex-STRING: C0 00 00 00 00 00 00 00

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.4.2 = Hex-STRING: 30 00 00 00 00 00 00 00

Description:

#The member port list of the **group ID 1** are port **1** and **2**. (C0 00...= 1100 0000...)

#The member port list of the **group ID 2** are port **3** and **4**. (30 00...= 0011 0000...)

Value: 0000 0000....(1=enable; 0=disable)

Port: 1234 5678....(port=1~27)

4) Flooding Port Number

swL2TrunkFloodingPort (1.3.6.1.4.1.171.11.70.6.2.9.3.1.5) - **Integer**

⇒ Integer = Flooding Port Number

For example:

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3.1.5
```

```
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.5.1 = INTEGER: 1
```

```
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.5.2 = INTEGER: 3
```

Description:

```
#The flooding port of the group ID 1 is port 1.
```

```
#The flooding port of the group ID 2 is port 3.
```

5) Trunk Type

swL2TrunkType (1.3.6.1.4.1.171.11.70.6.2.9.3.1.6) – **Integer**

⇒ Integer = Trunk Type (2 = static; 3 = LACP)

For example:

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3.1.6
```

```
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.6.1 = INTEGER: 3
```

```
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.6.2 = INTEGER: 2
```

Description:

```
#The trunk type of the group ID 1 is the LACP. ( value = 3).
```

```
#The trunk type of the group ID 2 is the Static. ( value = 2).
```

6) Trunk State

swL2TrunkState (1.3.6.1.4.1.171.11.70.6.2.9.3.1.7) – **Integer**

⇒ Integer = Trunk State (1 = active)

For example:

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3.1.7
```

```
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.7.1 = INTEGER: 1
```

```
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.7.2 = INTEGER: 1
```

Description:

```
#The group ID 1 is active. ( value = 1).
```

```
#The group ID 2 is active. ( value = 1).
```

7) Active Port List

swL2TrunkActivePorts (1.3.6.1.4.1.171.11.70.6.2.9.3.1.8) - **Octet String**

⇒ Octet String = Active Port List

For example:

```
snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3.1.8
```

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.8.1 = Hex-STRING: 80 00 00 00 00 00 00 00

SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.8.2 = Hex-STRING: 30 00 00 00 00 00 00 00

Description:

#The active port list of the **group ID 1** are port **1**. (C0 00... = 1000 0000...)

#The active port list of the **group ID 2** are port **3** and **4**. (30 00... = 0011 0000...)

Value: 0000 0000....(1=enable; 0=disable)

Port: 1234 5678....(port=1~27)

Summary

The CLI command: *show link_aggregation*

```
DGS-3627:admin#sh link
Command: show link_aggregation

Link Aggregation Algorithm = IP-Source
Group ID       : 1
Type           : LACP
Master Port    : 1
Member Port    : 1-2
Active Port    : 1
Status         : Enabled
Flooding Port  : 1

Group ID       : 2
Type           : TRUNK
Master Port    : 3
Member Port    : 3-4
Active Port    : 3-4
Status         : Enabled
Flooding Port  : 3

Total Entries : 2
```

swL2TrunkCtrlTable (1.3.6.1.4.1.171.11.70.6.2.9.3)

snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3

```
C:\>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.11.70.6.2.9.3
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.1.1 = INTEGER: 1 → Group ID
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.1.2 = INTEGER: 2
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.2.1 = "" → Not definition
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.2.2 = ""
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.3.1 = INTEGER: 1 → Master Port
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.3.2 = INTEGER: 3
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.4.1 = Hex-STRING: C0 00 00 00 00 00 → Member Port List
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.4.2 = Hex-STRING: 30 00 00 00 00 00
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.5.1 = INTEGER: 1 → Flooding Port
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.5.2 = INTEGER: 3
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.6.1 = INTEGER: 3 → Trunk Type (2=static, 3=lacp)
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.6.2 = INTEGER: 2
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.7.1 = INTEGER: 1 → Trunk State (1=active)
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.7.2 = INTEGER: 1
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.8.1 = Hex-STRING: 80 00 00 00 00 00 → Active Port List
SNMPv2-SMI::enterprises.171.11.70.6.2.9.3.1.8.2 = Hex-STRING: 30 00 00 00 00 00
```