

How to configure Trusted Host via SNMP on DGS-3100

MIB File: mnginf.mib

The screenshot shows a MIB browser interface. On the left, a tree view displays the hierarchy: iso > rIMngInflistInetTable > rIMngInflistInetEntry. The right pane shows details for the selected object, rIMngInflistInetTable. The details include: Object name: rIMngInflistInetTable; Object ID: 1.3.6.1.4.1.171.10.94.89.89.6; Module: DLINK-3100-MNGINF-MIB; Base syntax: Sequence Of rIMngInflistInetEntry; Access: Not_Accessible; Status: Current; Sequence: 1:rIMngInflistInetName - Octet String, 2:rIMngInflistInetPriority - Gauge, 3:rIMngInflistInetIfIndex - Gauge, 4:rIMngInflistInetIpAddrType - Integer, 5:rIMngInflistInetIpAddr - Octet String, 6:rIMngInflistInetIpNetMask - IP Address, 7:rIMngInflistInetService - Integer, 8:rIMngInflistInetAction - Integer, 9:rIMngInflistInetRowStatus - Integer, 10:rIMngInflistInetIPv6PrefixLength - Integer; Parent node: iso; First child: rIMngInflistInetEntry; Description: The table specifies all defined Access Lists definitions for both IPv4 and IPv6 addresses.

[CLI Command]

```
# create trusted_host 10.90.90.91 network 255.0.0.0 application all
```

[SNMP Command]

```
snmpset -v2c -c private 10.90.90.90  
1.3.6.1.4.1.171.10.94.89.89.89.6.1.5.12.116.114.117.115.116.101.100.95.104.111.115.116.7 x 0A5A5A5B  
1.3.6.1.4.1.171.10.94.89.89.89.6.1.6.12.116.114.117.115.116.101.100.95.104.111.115.116.7 a 255.0.0.0  
1.3.6.1.4.1.171.10.94.89.89.89.6.1.7.12.116.114.117.115.116.101.100.95.104.111.115.116.7 i 0  
1.3.6.1.4.1.171.10.94.89.89.89.6.1.8.12.116.114.117.115.116.101.100.95.104.111.115.116.7 i 0  
1.3.6.1.4.1.171.10.94.89.89.89.6.1.9.12.116.114.117.115.116.101.100.95.104.111.115.116.7 i 4
```

[Description]

12. = fixed value.

116.114.117.115.116.101.100.95.104.111.115.116. = the ASCII char, which means "trusted_host".

7 = a random priority value, suggest use the multiple of 7, ex: 7, 14, 21, 28... etc.

x 0A5A5A5B = Octet String for x, Hex value for IP address, which means "10.90.90.91".

a 255.0.0.0 = IP address format for a, and "255.0.0.0" here means subnet mask.

i 0 = integer for i, value 0 for application "all", you can see the value list here ->

i 0 = integer for i, value 0 for action permit (value 1 is for action deny.)

i 4 = integer for i, value 4 for action CreateAndGo, see the value list as below:

```
active(1)  
notInService(2)  
notReady(3)  
createAndGo(4)  
createAndWait(5)  
destroy(6)
```

```
dontCare(0)  
telnet(1)  
snmp(2)  
http(3)  
https(4)  
ssh(5)  
icmp(6)
```

[Packet example]



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st.pcap

[OID Description]

There are 5 OIDs needed in this setting:

1) rMngInfListInetIpAddr - Octet String

Object name	rMngInfListInetIpAddr
Object ID	1.3.6.1.4.1.171.10.94.89.89.6.1.5
Module	DLINK-3100-MNGINF-MIB
Base syntax	Octet String
Composed syntax	InetAddress
Access	Read-Write
Status	Current
Value list	1 : 0..255
Parent node	rMngInfListInetEntry
First child	None
Description	The Inet address.Used for both IPv4 and IPv6 addresses. The InetAddress can be configured to be 0.0.0.0 and address type IPv4 , which means ignored value.

2) rMngInfListInetIpNetMask - IP Address

Object name	rMngInfListInetIpNetMask
Object ID	1.3.6.1.4.1.171.10.94.89.89.6.1.6
Module	DLINK-3100-MNGINF-MIB
Base syntax	IP Address
Composed syntax	IpAddress
Access	Read-Write
Status	Current
Parent node	rMngInfListInetEntry
First child	None
Description	This field will used in case of IPv4 addresses . For IPv6 this field ignored. Default value 255,255,255,255.

3) rMngInfListInetService – Integer

Object name	rMngInfListInetService
Object ID	1.3.6.1.4.1.171.10.94.89.89.6.1.7
Module	DLINK-3100-MNGINF-MIB
Base syntax	Integer
Composed syntax	RMngInfServiceType
Access	Read-Write
Status	Current
Value list	1 : dontCare(0) 2 : telnet(1) 3 : snmp(2) 4 : http(3) 5 : https(4) 6 : ssh(5) 7 : icmp(6)
Parent node	rMngInfListInetEntry
First child	None
Description	Service type. The Service type address can be configured to be 0, which means any of Telnet, SNMP, HTTP, HTTPS, SSH.

4) rMngInfListInetAction – Integer

Object name	rMngInfListInetAction
Object ID	1.3.6.1.4.1.171.10.94.89.89.6.1.8
Module	DLINK-3100-MNGINF-MIB
Base syntax	Integer
Composed syntax	RIMngInfActionType
Access	Read-Write
Status	Current
Value list	1 : permit(0) 2 : deny(1)
Parent node	rMngInfListInetEntry
First child	None
Description	Action type. Can be permit or deny.

5) rMngInfListInetRowStatus – Integer

Object name	rMngInfListInetRowStatus
Object ID	1.3.6.1.4.1.171.10.94.89.89.6.1.9
Module	DLINK-3100-MNGINF-MIB
Base syntax	Integer
Composed syntax	RowStatus
Access	Read-Write
Status	Current
Value list	1 : active(1) 2 : notInService(2) 3 : notReady(3) 4 : createAndGo(4) 5 : createAndWait(5) 6 : destroy(6)
Parent node	rMngInfListInetEntry
First child	None
Description	The row status variable, used according to row installation and removal conventions.