

How to configure SNTP on DGS-3100 via SNMP

MIB File: rlsntp.mib = DLINK-3100-TIMESYNCHRONIZATION-MIB

The screenshot shows a MIB browser interface. On the left, a tree view displays the hierarchy: iso > rTimeSyncMethodMode > rSntpNtpClient > rSntpNtpConfig > rSntpConfig > rSntpConfigServerInetTable. On the right, the details for rSntpConfigServerInetTable are shown:

Object name	rSntpConfigServerInetTable
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.2.2.17
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Sequence Of rSntpServerInetEntry
Access	Not_Accessible
Status	Current
Sequence	1:rSntpServerInetAddressType - Integer 2:rSntpServerInetAddress - Octet String 3:rSntpServerInetPolled - Integer 4:rSntpServerInetStratum - Integer 5:rSntpServerInetLastResp - Octet String 6:rSntpServerInetStatus - Integer 7:rSntpServerInetOffset - Octet String 8:rSntpServerInetDelay - Octet String 9:rSntpServerInetKeyIdentifier - Gauge 10:rSntpServerInetRowStatus - Integer
Parent node	rSntpConfig
First child	rSntpServerInetEntry
Description	A table containing trusted SNTP servers to be queried in unicast or broadcast mode.

1) enable sntp

- CLI: # enable sntp
- SNMP:

```
# snmpset -v2c -c private 10.90.90.92 1.3.6.1.4.1.171.10.94.89.89.92.2.2.2.0 i 1
1.3.6.1.4.1.171.10.94.89.89.92.2.2.5.0 i 1 1.3.6.1.4.1.171.10.94.89.89.92.1.5.0 i 2
```

Description:

- i 1 = Admin state is enabled**
- i 1 = Poll State is true**
- i 2 = select sync time mode to SNTP(2)**



1_enableSNTP.pcap

Object name	rSntpUnicastAdminState
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.2.2.2
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Write
Status	Current
Value list	1 : enabled(1) 2 : disabled(2)
Parent node	rSntpConfig
First child	None
Description	SNTP Unicast Administrative state - Enable/Disable SNTP. In case of reinitializing polling or time synchronization this MIB is modified. The MIB can be enabled even though it is already enabled.

Object name	rSntpUnicastPollState
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.2.2.5
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Integer
Composed syntax	TruthValue
Access	Read-Write
Status	Current
Value list	1 : true(1) 2 : false(2)
Parent node	rSntpConfig
First child	None
Description	SNTP Unicast poll state - TRUE for polled.

Object name	rTimeSyncMethod
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.1.5
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Integer
Composed syntax	RTimeSyncMethod
Access	Read-Write
Status	Current
Value list	1 : none(1) 2 : sntp(2) 3 : ntp(3)
Parent node	rTimeSyncMethodMode
First child	None
Description	Method to be used for time synchronization in the device.

2) configure SNMP Servers and Poll interval:

- CLI:

```
# config snmp primary 1.1.1.1 secondary 2.2.2.2 poll-interval 100
```

- SNMP:

- * **Step 1: setup the primary server IP address**

```
# snmpset -v2c -c private 10.90.90.92 1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.3.1.4.1.1.1.1 i 1
1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.9.1.4.1.1.1.1 u 0
1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.10.1.4.1.1.1.1 i 4
```

Step 1 Description:

1.4 = DGS-3100 designed values.

1.1.1.1 = the primary IP Address

i 1 = integer value 1 for Primary Server

u 0 = Gauge value 0 for no authentication is being done.

i 4 = integer value 1 for action createAndGo

|

- * **Step 2: setup the secondary server IP address**

```
# snmpset -v2c -c private 10.90.90.92 1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.3.1.4.2.2.2.2 i 2
1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.9.1.4.2.2.2.2 u 0
1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.10.1.4.2.2.2.2 i 4
```

Step 2 Description:

1.4 = DGS-3100 designed values.

2.2.2.2 = the secondary IP Address

i 2 = integer value 2 for Secondary Server

u 0 = Gauge value 0 for no authentication is being done.

i 4 = integer value 1 for action createAndGo

- * **Step 3: setup the poll interval**

```
# snmpset -v2c -c private 10.90.90.92 1.3.6.1.4.1.171.10.94.89.89.92.2.1.4.0 i 100
```

Step 3 Description:

i 100 = integer value <60-86400> for Poll Interval (time in seconds)



2.Configure_SNTP_S
ervers_PollInterval.pc

Object name	rlSntpServerInetPolled
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.3
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Integer
Composed syntax	TruthValue
Access	Read-Write
Status	Current
Value list	1 : true(1) 2 : false(2)
Parent node	rlSntpServerInetEntry
First child	None
Description	TRUE if participating in polling cycle, else FALSE.

Object name	rlSntpServerInetKeyIdentifier
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.9
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Gauge
Composed syntax	Unsigned32
Access	Read-Write
Status	Current
Parent node	rlSntpServerInetEntry
First child	None
Description	Authentication key identifier. The valid range is 1-4294967295. Value zero, means no authentication is being done.

Object name	rlSntpServerInetRowStatus
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.2.2.17.1.10
Module	DLINK-3100-TIMESYNCHRONIZATION-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	rlSntpServerInetEntry
First child	None
Description	The Status of this SNMP server information.