

How to configure Time on DGS-3100 via SNMP

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

Object name	rlTimeSyncMethodMode
Object ID	1.3.6.1.4.1.171.10.94.89.92.1
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Object Identifier
Access	Not_Accessible
Status	Mandatory
Parent node	iso
First child	rlTimeSyncMibVersion

1) Show time (current time)

- CLI: # `show time`
- SNMP: both 1.1 and 1.2 can use:

1.1) `snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.92.1.4`

```
C:\>snmpwalk -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.92.1.4
DLINK-ID-REC-MIB::dlink-products.94.89.89.92.1.4.0 = STRING: "010100013450"
```

```
DGS-3100# sh time
Current Time Source      : System Clock
Boot Time                : 31 Dec 2000 01:01:01
Current Time             : 01 Jan 2000 01:34:50
Time zone                : UTC +0
Daylight Saving Time    : Disable
Offset in Minutes       :
Repeating From           :
    To                   :
Annual From              :
    To                   :
```

Object name	rndTimeSyncManagedDateTime
Object ID	1.3.6.1.4.1.171.10.94.89.92.1.4
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Write
Status	Current
Value list	1 : 12..12
Parent node	rlTimeSyncMethodMode
First child	None
Description	The date and time will be sent in the format ddmmyyhhmmss

1.2) snmpget -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.92.1.2.0 1.3.6.1.4.1.171.10.94.89.89.92.1.3.0

```
C:\>snmpget -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.92.1.2.0 1.3.6.1.4.1.171.10.94.89.89.92.1.3.0
DLINK-ID-REC-MIB::dlink-products.94.89.89.92.1.2.0 = STRING: "012153" Time (hhmmss)
DLINK-ID-REC-MIB::dlink-products.94.89.89.92.1.3.0 = STRING: "010100" Date (ddmmyy)
```

```
DGS-3100# sh time
Current Time Source      : System Clock
Boot Time                : 31 Dec 2000 01:01:01
Current Time             : 01 Jan 2000 01:21:53
Time zone                : UTC +0
Daylight Saving Time    : Disable
Offset in Minutes       :
Repeating From           :
    To                   :
Annual From              :
    To                   :
```

Object name	rndTimeSyncManagedTime
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.1.2
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Write
Status	Current
Value list	1 : 6..6
Parent node	rlTimeSyncMethodMode
First child	None
Description	The time will be sent in the format hhmmss

Object name	rndTimeSyncManagedDate
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.1.3
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Write
Status	Current
Value list	1 : 6..6
Parent node	rlTimeSyncMethodMode
First child	None
Description	The date will be sent in the format ddmmyy

2) configure time

- CLI: # config time date 24052011 02:53:00
- SNMP:



DGS-3100_configure_time_snmp.pcap

```
snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.92.1.4.0 x 323430353131303235333030
```

```
C:\>snmpset -v2c -c private 10.90.90.90 1.3.6.1.4.1.171.10.94.89.89.92.1.4.0 x 323430353131303235333030
DLINK-ID-REC-MIB::dlink-products.94.89.89.92.1.4.0 = STRING: "240511025300"
```

Description:

x 323430353131303235333030 = Octet string, ASCII code char to hex,
Char 240511025300 = Hex 323430353131303235333030
see the ASCII Table as below.

Dec	Hex	Char	Dec	Hex	Char	Dec	Hex	Char	Dec	Hex	Char
0	00	Null	32	20	Space	64	40	@	96	60	`
1	01	Start of heading	33	21	!	65	41	A	97	61	a
2	02	Start of text	34	22	"	66	42	B	98	62	b
3	03	End of text	35	23	#	67	43	C	99	63	c
4	04	End of transmit	36	24	\$	68	44	D	100	64	d
5	05	Enquiry	37	25	%	69	45	E	101	65	e
6	06	Acknowledge	38	26	&	70	46	F	102	66	f
7	07	Audible bell	39	27	'	71	47	G	103	67	g
8	08	Backspace	40	28	(	72	48	H	104	68	h
9	09	Horizontal tab	41	29	)	73	49	I	105	69	i
10	0A	Line feed	42	2A	*	74	4A	J	106	6A	j
11	0B	Vertical tab	43	2B	+	75	4B	K	107	6B	k
12	0C	Form feed	44	2C	,	76	4C	L	108	6C	l
13	0D	Carriage return	45	2D	-	77	4D	M	109	6D	m
14	0E	Shift out	46	2E	.	78	4E	N	110	6E	n
15	0F	Shift in	47	2F	/	79	4F	O	111	6F	o
16	10	Data link escape	48	30	0	80	50	P	112	70	p
17	11	Device control 1	49	31	1	81	51	Q	113	71	q
18	12	Device control 2	50	32	2	82	52	R	114	72	r
19	13	Device control 3	51	33	3	83	53	S	115	73	s
20	14	Device control 4	52	34	4	84	54	T	116	74	t
21	15	Neg. acknowledge	53	35	5	85	55	U	117	75	u
22	16	Synchronous idle	54	36	6	86	56	V	118	76	v
23	17	End trans. block	55	37	7	87	57	W	119	77	w
24	18	Cancel	56	38	8	88	58	X	120	78	x
25	19	End of medium	57	39	9	89	59	Y	121	79	y
26	1A	Substitution	58	3A	:	90	5A	Z	122	7A	z
27	1B	Escape	59	3B	;	91	5B	[	123	7B	{
28	1C	File separator	60	3C	<	92	5C	\	124	7C	|
29	1D	Group separator	61	3D	=	93	5D	]	125	7D	}
30	1E	Record separator	62	3E	>	94	5E	^	126	7E	~
31	1F	Unit separator	63	3F	?	95	5F	_	127	7F	□

Other OID Description of this MIB:

- Time Zone: 1.3.6.1.4.1.171.10.94.89.89.92.1.6

Object name	rTimeZone
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.1.6
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Octet String
Composed syntax	DisplayString
Access	Read-Write
Status	Current
Value list	1 : 1..6
Parent node	rTimeSyncMethodMode
First child	None
Description	Offset from Greenwich time (format [+/-]hh:mm).

- Daylight Saving Time Mode: 1.3.6.1.4.1.171.10.94.89.89.92.1.8

Object name	rDaylightSavingTimeMode
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.1.8
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Integer
Composed syntax	RDaylightSavingTimeMode
Access	Read-Write
Status	Current
Value list	1 : recurring(1) 2 : date(2) 3 : none(3)
Parent node	rTimeSyncMethodMode
First child	None
Description	Daylight Saving Time - Recurring/Date/None.

- Current status of the clock: 1.3.6.1.4.1.171.10.94.89.89.92.1.16

Object name	rClockStatus
Object ID	1.3.6.1.4.1.171.10.94.89.89.92.1.16
Module	DLINK-3100-TIMESYNCHRONIZATION-MIB
Base syntax	Integer
Composed syntax	INTEGER
Access	Read-Only
Status	Current
Value list	1 : invalid(1) 2 : manuallySet(2) 3 : synchronizedBySntp(3)
Parent node	rTimeSyncMethodMode
First child	None
Description	Current status of the clock. The value 'invalid' means time is meaningless, since it has neither been manually configured nor achieved as a result of SNTP synchronization.

