

## How to configure TIME.mib via Net-SNMP ( DES-3028/52)

### Show system current time

```
snmpwalk -v2C -c private 10.90.90.90 1.3.6.1.4.1.171.12.10.2.0
```

Format of swCurrentClock.

1st-2st octet: year  
3st      octet: month  
4st      octet: monthday  
5st      octet: hour  
6st      octet: minute  
7st      octet: second  
8st      octet: reserved

"07 D9 04 09 0C 08 2B 00" means " 2009 year, 4 month, 9 monthday , 12 hour , 8 min, 43 sec"

### The command example in CLI mode

```
enable sntp
config time_zone operator + hour 3 min 0
config sntp primary 10.207.254.10 secondary 80.252.128.2 poll-interval 30
config dst repeating s_week last s_day sun s_mth 3 s_time 2:0 e_week last e_day sun
e_mth 10 e_time 2:0 offset 60
```

### Enable SNTP

```
snmpset -v2C -c private 10.90.90.90 1.3.6.1.4.1.171.12.10.11.1.0 i 3
```

### Configure time zone

```
snmpset -v2C -c private 10.90.90.90 1.3.6.1.4.1.171.12.10.10.4.0 i 180
```

### SNTP configuration example

SNTP Primary Server 10.207.254.10

```
snmpset -v2C -c private 10.90.90.90 1.3.6.1.4.1.171.12.10.11.3.0 a 10.207.254.10
```

SNTP Secondary Server 80.252.128.2

```
snmpset -v2C -c private 10.90.90.90 1.3.6.1.4.1.171.12.10.11.4.0 a 80.252.128.2
```

### Interval 30 second

```
snmpset -v2C -c private 10.90.90.90 1.3.6.1.4.1.171.12.10.11.5.0 i 30
```

## Configure DST

```
snmpset -v2C -c private 10.90.90.90 1.3.6.1.4.1.171.12.10.12.1.0 i 1  
1.3.6.1.4.1.171.12.10.12.2.0 i 60 1.3.6.1.4.1.171.12.10.12.3.0 x 000001030200  
1.3.6.1.4.1.171.12.10.12.4.0 x 0000010A0200
```

Format of swRepeatSummerTimeStart & swRepeatSummerTimeEnd

1st octet: the start week number

2st-3st octet: day

4st octet: month

5st octet: hour

6st octet: min

"00 00 01 03 02 00" means " last week, Sunday , 3 month , 2 hour , 0 min"

"00 00 01 0A 02 00" means " last week, Sunday , 10 month , 2 hour , 0 min"

## The OID relative to time.mib

MIB Tree	
iso	
swTimeMIB	
swTimeCapacity	Object name swTimeMIB
swCurrentClock	Object ID 1.3.6.1.4.1.171.12.10
swClockLostOnReboot	Module TIME-MIB
swSystemTime	Base syntax Module Identity
swSystemCurrentTime	Access Not_Accessible
swSystemUpTime	Status Mandatory
swSystemBootTime	Parent node iso
swSystemTimeZone	First child swTimeCapacity
swSNTP	Last updated 0704170000Z
swSNTPState	Organization D-Link Corp.
swSNTPTimeSource	Contact info <a href="http://support.dlink.com">http://support.dlink.com</a>
swSNTPServerIPAddr	Description equipments absolute time.
swSNTPPollInterval	
swSummerTime	
swSummerTimeStatus	
swSummerTimeOffset	
swRepeatSummerTimeStart	
swRepeatSummerTimeEnd	
swAnnualSummerTimeStart	
swAnnualSummerTimeEnd	

<b>MIB Tree</b> iso └─ swTimeMIB └─ swTimeCapacity └─ swCurrentClock └─ swClockLostOnReboot └─ swSystemTime └─ swSystemCurrentTime └─ swSystemUpTime └─ swSystemBootTime └─ swSystemTimeZone └─ swSNTP └─ swSNTPState └─ swSNTPTimeSource └─ swSNTPServer1IPAddr └─ swSNTPServer2IPAddr └─ swSNTPPollInterval └─ swSummerTime └─ swSummerTimeStatus └─ swSummerTimeOffset └─ swRepeatSummerTimeStart └─ swRepeatSummerTimeEnd └─ swAnnualSummerTimeStart └─ swAnnualSummerTimeEnd └─ swTimeNofitPrefix	Object name      swTimeCapacity Object ID      1.3.6.1.4.1.171.12.10.1 Module      TIME-MIB  Base syntax      Module Identity Composed syntax      BITS Access      Read-Only Status      Current  Parent node      swTimeMIB First child      None Description      Indicates the time capacity supported in the system. If sntp bit is 1 , indicate the SNTP is supported else if sntp bit is 0, the SNTP is not supported and the subtree swSNTP will not supported also. If summerTime bit is 1 ,indicate the SummerTime is supported else if sntp bit is 0, the SummerTime is not supported and the subtree swSummerTime will not supported also. If realTimeClock bit is 1 , indicate the real time clock is supported else if the bit is 0, the real time clock is not supported .
<b>MIB Tree</b> iso └─ swTimeMIB └─ swTimeCapacity └─ swCurrentClock └─ swClockLostOnReboot └─ swSystemTime └─ swSystemCurrentTime └─ swSystemUpTime └─ swSystemBootTime └─ swSystemTimeZone └─ swSNTP └─ swSNTPState └─ swSNTPTimeSource └─ swSNTPServer1IPAddr └─ swSNTPServer2IPAddr └─ swSNTPPollInterval └─ swSummerTime └─ swSummerTimeStatus └─ swSummerTimeOffset └─ swRepeatSummerTimeStart └─ swRepeatSummerTimeEnd └─ swAnnualSummerTimeStart └─ swAnnualSummerTimeEnd	Object name      swCurrentClock Object ID      1.3.6.1.4.1.171.12.10.2 Module      TIME-MIB  Base syntax      Octet String Composed syntax      DateAndTime Access      Read-Write Status      Current Value list      1 : 8.8 2 : 11.11  Parent node      swTimeMIB First child      None Description      The current local date and time for the system. Setting this object is equivalent to setting an automated clock and calendar. The value of the object will track the date and time from the value set. Note that due to hardware limitations some systems may not be able to preserve such meaning across reboots of the system, as indicated by swClockLostOnReboot. A constant value of all zeros and length 8 indicates the system is not aware of the present date and time. This object may be read-only on some systems.
<b>MIB Tree</b> iso └─ swTimeMIB └─ swTimeCapacity └─ swCurrentClock └─ swClockLostOnReboot └─ swSystemTime └─ swSystemCurrentTime └─ swSystemUpTime └─ swSystemBootTime └─ swSystemTimeZone └─ swSNTP └─ swSNTPState └─ swSNTPTimeSource └─ swSNTPServer1IPAddr └─ swSNTPServer2IPAddr └─ swSNTPPollInterval └─ swSummerTime └─ swSummerTimeStatus └─ swSummerTimeOffset └─ swRepeatSummerTimeStart └─ swRepeatSummerTimeEnd └─ swAnnualSummerTimeStart └─ swAnnualSummerTimeEnd	Object name      swClockLostOnReboot Object ID      1.3.6.1.4.1.171.12.10.3 Module      TIME-MIB  Base syntax      Integer Composed syntax      TruthValue Access      Read-Only Status      Current Value list      1 : true(1) 2 : false(2)  Parent node      swTimeMIB First child      None Description      Indication of whether the system can preserve knowledge of current date and time across a system reboot. A value of 'true' indicates the clock must be reset from some external source each time the system reboots. A value of 'false' indicates the system has the ability to keep time across reboots.

MIB Tree	
<ul style="list-style-type: none"> <li>iso           <ul style="list-style-type: none"> <li>swTimeMIB               <ul style="list-style-type: none"> <li>swTimeCapacity</li> <li>swCurrentClock</li> <li>swClockLostOnReboot</li> <li>swSystemTime                   <ul style="list-style-type: none"> <li>swSystemCurrentTime</li> <li>swSystemUpTime</li> <li>swSystemBootTime</li> <li>swSystemTimeZone</li> </ul> </li> <li>swSNTP                   <ul style="list-style-type: none"> <li>swSNTPState</li> <li>swSNTPTimeSource</li> <li>swSNTPServer1IPAddr</li> <li>swSNTPServer2IPAddr</li> <li>swSNTPPollInterval</li> </ul> </li> <li>swSummerTime                   <ul style="list-style-type: none"> <li>swSummerTimeStatus</li> <li>swSummerTimeOffset</li> <li>swRepeatSummerTimeStart</li> <li>swRepeatSummerTimeEnd</li> <li>swAnnualSummerTimeStart</li> <li>swAnnualSummerTimeEnd</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<p>Object name: swSystemTime  Object ID: 1.3.6.1.4.1.171.12.10.10  Module: TIME-MIB</p> <p>Base syntax: Object Identifier  Access: Not_Accessible  Status: Mandatory</p> <p>Parent node: swTimeMIB  First child: swSystemCurrentTime</p>

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<ul style="list-style-type: none"> <li>iso           <ul style="list-style-type: none"> <li>swTimeMIB               <ul style="list-style-type: none"> <li>swTimeCapacity</li> <li>swCurrentClock</li> <li>swClockLostOnReboot</li> <li>swSystemTime                   <ul style="list-style-type: none"> <li>swSystemCurrentTime</li> <li>swSystemUpTime</li> <li>swSystemBootTime</li> <li>swSystemTimeZone</li> </ul> </li> <li>swSNTP                   <ul style="list-style-type: none"> <li>swSNTPState</li> <li>swSNTPTimeSource</li> <li>swSNTPServer1IPAddr</li> <li>swSNTPServer2IPAddr</li> <li>swSNTPPollInterval</li> </ul> </li> <li>swSummerTime                   <ul style="list-style-type: none"> <li>swSummerTimeStatus</li> <li>swSummerTimeOffset</li> <li>swRepeatSummerTimeStart</li> <li>swRepeatSummerTimeEnd</li> <li>swAnnualSummerTimeStart</li> <li>swAnnualSummerTimeEnd</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<p>Object name: swSystemCurrentTime  Object ID: 1.3.6.1.4.1.171.12.10.1  Module: TIME-MIB</p> <p>Base syntax: Octet String  Composed syntax: DisplayString  Access: Read-Only  Status: Current  Value list: 1 : 0..32</p> <p>Parent node: swSystemTime  First child: None  Description: the mandatory network time was got from the SNTP server</p>

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<ul style="list-style-type: none"> <li>iso           <ul style="list-style-type: none"> <li>swTimeMIB               <ul style="list-style-type: none"> <li>swTimeCapacity</li> <li>swCurrentClock</li> <li>swClockLostOnReboot</li> <li>swSystemTime                   <ul style="list-style-type: none"> <li>swSystemCurrentTime</li> <li>swSystemUpTime</li> <li>swSystemBootTime</li> <li>swSystemTimeZone</li> </ul> </li> <li>swSNTP                   <ul style="list-style-type: none"> <li>swSNTPState</li> <li>swSNTPTimeSource</li> <li>swSNTPServer1IPAddr</li> <li>swSNTPServer2IPAddr</li> <li>swSNTPPollInterval</li> </ul> </li> <li>swSummerTime                   <ul style="list-style-type: none"> <li>swSummerTimeStatus</li> <li>swSummerTimeOffset</li> <li>swRepeatSummerTimeStart</li> <li>swRepeatSummerTimeEnd</li> <li>swAnnualSummerTimeStart</li> <li>swAnnualSummerTimeEnd</li> </ul> </li> </ul> </li> </ul> </li> </ul>	<p>Object name: swSystemUpTime  Object ID: 1.3.6.1.4.1.171.12.10.2  Module: TIME-MIB</p> <p>Base syntax: Octet String  Composed syntax: DisplayString  Access: Read-Only  Status: Current  Value list: 1 : Value 32</p> <p>Parent node: swSystemTime  First child: None  Description: The time (in second) since the network management portion of the system was last re-initialized. It is the same as sysUptime.</p>

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Object name	swSNTPServer2IPAddr																				
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 MIB Tree <ul style="list-style-type: none"> <li> iso</li> <li> swTimeMIB               <ul style="list-style-type: none"> <li> swTimeCapacity</li> <li> swCurrentClock</li> <li> swClockLostOnReboot</li> <li> swSystemTime                   <ul style="list-style-type: none"> <li> swSystemCurrentTime</li> <li> swSystemUpTime</li> <li> swSystemBootTime</li> <li> swSystemTimeZone</li> </ul> </li> <li> swSNTP                   <ul style="list-style-type: none"> <li> swSNTPState</li> <li> swSNTPTimeSource</li> <li> swSNTPServerIPAddr</li> <li> swSNTPServer2IPAddr</li> <li> swSNTPPollInterval</li> </ul> </li> <li> swSummerTime                   <ul style="list-style-type: none"> <li> swSummerTimeStatus</li> <li> swSummerTimeOffset</li> <li> swRepeatSummerTimeStart</li> <li> swRepeatSummerTimeEnd</li> <li> swAnnualSummerTimeStart</li> <li> swAnnualSummerTimeEnd</li> </ul> </li> </ul> </li> </ul>	<p>Object name: swSummerTimeOffset    Object ID: 1.3.6.1.4.1.171.12.10.12.2    Module: TIME-MIB</p> <p>Base syntax: Integer    Composed syntax: INTEGER    Access: Read-Write    Status: Current    Value list: 1 : 0..1440</p> <p>Parent node: swSummerTime    First child: None    Description: The value of this object indicates number of minutes to add or to subtract during summertime. This object is not instantiated when swSummerTimeStatus object is set to disable.</p>
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 MIB Tree  iso  swTimeMIB <ul style="list-style-type: none"> <li> swTimeCapacity</li> <li> swCurrentClock</li> <li> swClockLostOnReboot</li> <li> swSystemTime           <ul style="list-style-type: none"> <li> swSystemCurrentTime</li> <li> swSystemUpTime</li> <li> swSystemBootTime</li> <li> swSystemTimeZone</li> </ul> </li> <li> swSNTP           <ul style="list-style-type: none"> <li> swSNTPState</li> <li> swSNTPTimeSource</li> <li> swSNTPServer1IPAddr</li> <li> swSNTPServer2IPAddr</li> <li> swSNTPPollInterval</li> </ul> </li> <li> swSummerTime           <ul style="list-style-type: none"> <li> swSummerTimeStatus</li> <li> swSummerTimeOffset</li> <li> swRepeat5SummerTimeStart</li> <li> swRepeat5SummerTimeEnd</li> </ul> </li> <li> swTimeNotifPrefix</li> </ul>	<p>Object name: swRepeat5SummerTimeEnd  Object ID: 1.3.6.1.4.1.171.12.10.12.4  Module: TIME-MIB</p> <p>Base syntax: Octet String  Composed syntax: OCTET STRING  Access: Read-Write  Status: Current  Value list: 1 : 6..6</p> <p>Parent node: swSummerTime  First child: None  Description: Indicates summertime ends at this time every year.  octets contents range  1 week 1..5,ff where ff = last  2-3 day 1..7  where sunday = 1 saturday = 7  4 month 1..12  where january = 1 december = 12  5 hour 0..23  6 min 0..59</p> <p>For example, the third friday in February at 3:30am  should be given as 03 00 06 02 03 1e  For the first Tuesday in May at 1:20am should  be given as 01 00 03 05 01 14  This object is not instantiated when  swSummerTimeStatus object is not set to repeating.</p>
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 MIB Tree  iso  swTimeMIB <ul style="list-style-type: none"> <li> swTimeCapacity</li> <li> swCurrentClock</li> <li> swClockLostOnReboot</li> <li> swSystemTime           <ul style="list-style-type: none"> <li> swSystemCurrentTime</li> <li> swSystemUpTime</li> <li> swSystemBootTime</li> <li> swSystemTimeZone</li> </ul> </li> <li> swSNTP           <ul style="list-style-type: none"> <li> swSNTPState</li> <li> swSNTPTimeSource</li> <li> swSNTPServer1IPAddr</li> <li> swSNTPServer2IPAddr</li> <li> swSNTPPollInterval</li> </ul> </li> <li> swSummerTime           <ul style="list-style-type: none"> <li> swSummerTimeStatus</li> <li> swSummerTimeOffset</li> <li> swRepeat5SummerTimeStart</li> <li> swRepeat5SummerTimeEnd</li> </ul> </li> <li> swAnnualSummerTimeStart</li> <li> swAnnualSummerTimeEnd</li> <li> swTimeNotifPrefix</li> </ul>	<p>Object name: swAnnualSummerTimeStart  Object ID: 1.3.6.1.4.1.171.12.10.12.5  Module: TIME-MIB</p> <p>Base syntax: Octet String  Composed syntax: OCTET STRING  Access: Read-Write  Status: Current  Value list: 1 : 4..4</p> <p>Parent node: swSummerTime  First child: None  Description: Indicates summertime starts at this time every year.  octets contents range  1 monthDay 1..31,  2 month 1..12  where january = 1 december = 12  3 hour 0..23  4 min 0..59</p> <p>For example, the first Feb at 13:30pm  should be given as 01 02 01 1e  For the tenth dec at 1:20am should be  given as ff 00 03 0c 01 14  This object is not instantiated when  swSummerTimeStatus object is not set to annual.</p>
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 MIB Tree  iso  swTimeMIB <ul style="list-style-type: none"> <li> swTimeCapacity</li> <li> swCurrentClock</li> <li> swClockLostOnReboot</li> <li> swSystemTime           <ul style="list-style-type: none"> <li> swSystemCurrentTime</li> <li> swSystemUpTime</li> <li> swSystemBootTime</li> <li> swSystemTimeZone</li> </ul> </li> <li> swSNTP           <ul style="list-style-type: none"> <li> swSNTPState</li> <li> swSNTPTimeSource</li> <li> swSNTPServer1IPAddr</li> <li> swSNTPServer2IPAddr</li> <li> swSNTPPollInterval</li> </ul> </li> <li> swSummerTime           <ul style="list-style-type: none"> <li> swSummerTimeStatus</li> <li> swSummerTimeOffset</li> <li> swRepeat5SummerTimeStart</li> <li> swRepeat5SummerTimeEnd</li> </ul> </li> <li> swAnnualSummerTimeStart</li> <li> swAnnualSummerTimeEnd</li> <li> swTimeNotifPrefix</li> </ul>	<p>Object name: swAnnualSummerTimeEnd  Object ID: 1.3.6.1.4.1.171.12.10.12.6  Module: TIME-MIB</p> <p>Base syntax: Octet String  Composed syntax: OCTET STRING  Access: Read-Write  Status: Current  Value list: 1 : 4..4</p> <p>Parent node: swSummerTime  First child: None  Description: Indicates summertime ends at this time every year.  octets contents range  1 monthDay 1..31,  2 month 1..12  where january = 1 december = 12  3 hour 0..23  4 min 0..59</p> <p>For example, the third February at 3:30am  should be given as 03 02 03 1e  For the first May at 1:20am should  be given as 01 05 01 14  This object is not instantiated when  swSummerTimeStatus object is not set to annual.</p>
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