Quick Note 30

Reboot a TransPort at a Certain Time of Day

Digi Technical Support

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Contents

1 INTRODUCTION

This Quick Note (QN) will demonstrate how to configure a TransPort to reboot at a set time every 24 hours. A "Script Basic" program is used for this and needs to be manually uploaded to the router.

Router Model: The router used in this quick note is the TransPort WR41

Other Compatible Models: Digi TransPort VC7400 VPN Concentrator, WR, SR or DR.

Firmware versions: 5.077 and later

Configuration: This QN assumes the devices are set to their factory default configurations. Most configuration commands are only shown if they differ from the factory default.

1.1 Corrections

Requests for corrections or amendments to this application note are welcome and should be addressed to: tech.support@digi.com

Requests for new QN's can be sent to the same address.

1.2 Version

Version Number	Status
1.0	Published
2.0	Updated and rebranded
2.0a	Change to HyperLink
2.1	Updated screenshots and instructions for new web interface, rebranding (Apr 2016)

2 CONFIGURATION

2.1 Place the Script Basic File on the TransPort File System

Download the following zip file then extract the "rebootat.sb" Script Basic file:

http://ftp1.digi.com/support/firmware/transport/utils/rebootat.zip

Using FileZilla or a similar FTP client, upload the "rebootat.sb" file to the default main folder on the TransPort, and then reboot the TransPort.

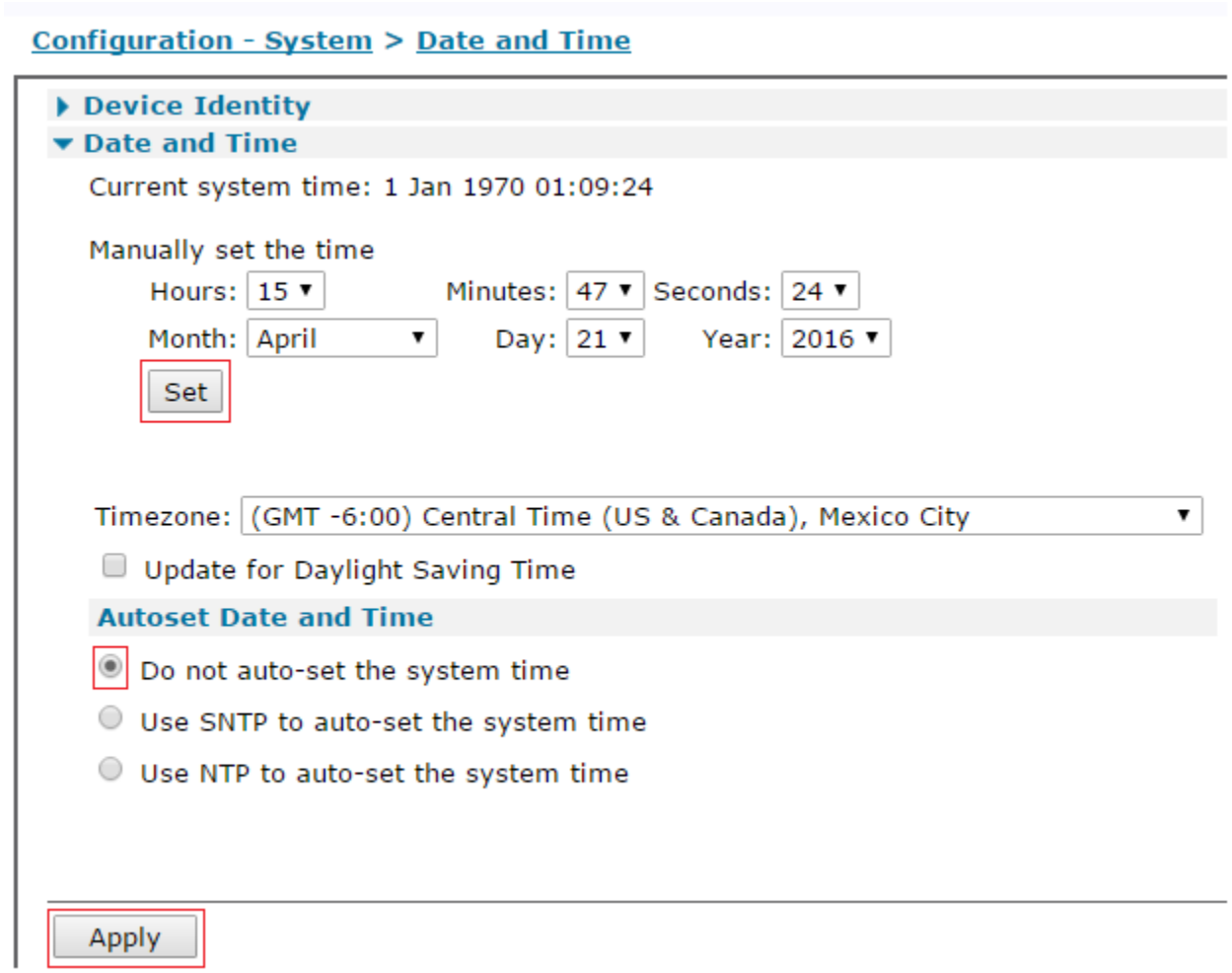
NOTE: Ensure the "FTP Server" Network Service is enabled, in **Configuration - Network > Network Services**.

2.2 Ensure Time is Correct

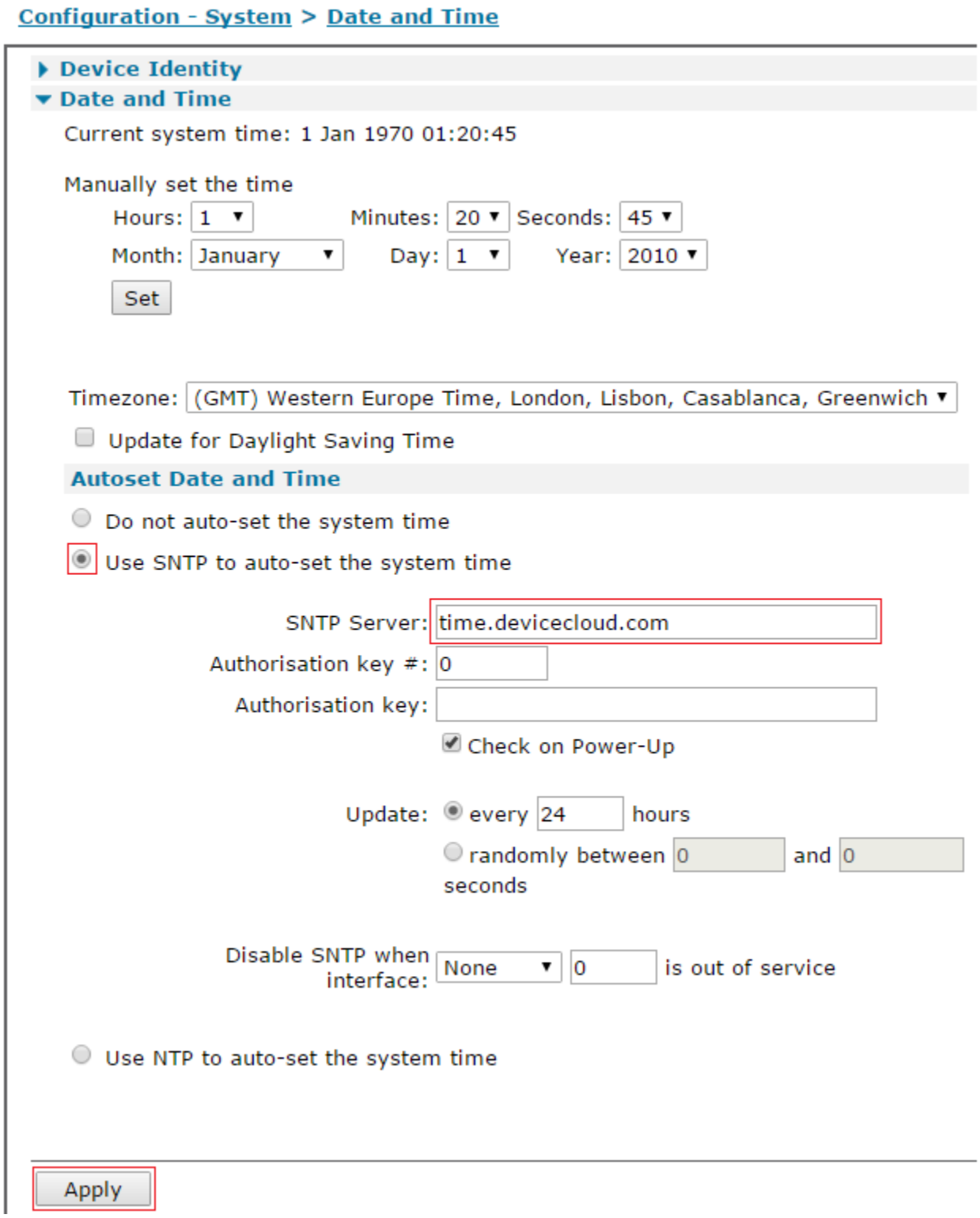
Navigate to **Configuration - System > Date and Time**

You can either enter the time manually or configure the TransPort for SNTP or NTP.

Manual configuration:



SNTP (Simple Network Timer Protocol) configuration:



NOTE: SNTP is the default time configuration setting. NTP may be alternatively be used.

Both hostnames and IP addresses are supported in the SNTP Server field.

A list of public SNTP Servers can be found here:
http://support.ntp.org/bin/view/Servers/NTPPoolServers

Parameter	Setting	Description
SNTP Server	time.devicecloud.com	Enter the desired SNTP server address

2.3 Configure the TransPort to Run the Script

Navigate to **Configuration - System > General**

Enter the command:

```
bas rebootat.sb hh:mm
```

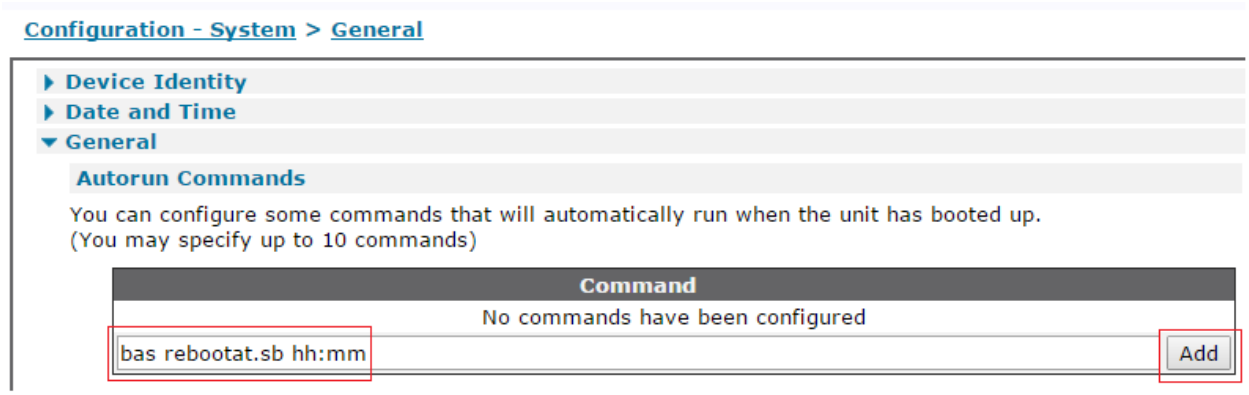
Where hh:mm is the time of the reboot using the 24 hour clock format.

`hh` = Hours

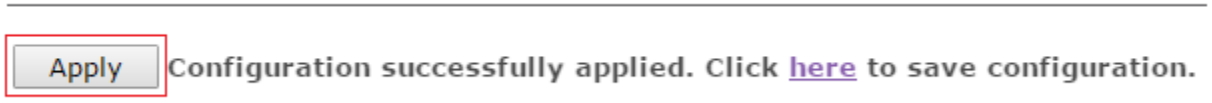
`mm` = Minutes

For example, to schedule a reboot at 6:30 PM, the command would be:

```
bas rebootat.sb 18:30
```



Click **Apply** then Save the configuration.



Parameter	Setting	Description
Command	bas rebootat.sb **hh**:**mm**	Enter the desired reboot time in **hours** and **minutes**

4 CONFIGURATION VIA COMMAND LINE

It is also possible to configure the same function via the CLI:

```
cmd 0 autocmd "bas rebootat.sb hh:mm"
config 0 save
```

5 TESTING

In this example, the time is almost 11 AM. The command configured in step 2.2 was:

```
bas rebootat.sb 11:00
```

The TransPort configuration was saved and manually rebooted.

When the TransPort has rebooted, the Event Log should be checked. There should be a 'User event' which is the event referring to the scripted reboot timer.

```
User event: REBOOTAT: Delay before reboot=2 mins
```

After the scripted reboot, another event will be written to the Event Log showing the TransPort will reboot in 1440 minutes (24 hours).

```
type eventlog.txt

11:00:21, 08 Nov 2010,User event: REBOOTAT: Delay before reboot=1440 mins
11:00:21, 08 Nov 2010,ETH 2 up
11:00:21, 08 Nov 2010,ETH 1 up
11:00:21, 08 Nov 2010,ETH 0 up
11:00:19, 08 Nov 2010,USB-3 device 1 connected: EHCI root hub
11:00:19, 08 Nov 2010,USB-2 device 1 connected: EHCI root hub
11:00:19, 08 Nov 2010,USB-1 device 1 connected: EHCI root hub
11:00:19, 08 Nov 2010,Power control profile 0 activated
11:00:19, 08 Nov 2010,Power-up[],Reboot command

10:58:03, 08 Nov 2010,User event: REBOOTAT: Delay before reboot=2 mins
10:58:03, 08 Nov 2010,ETH 2 up
10:58:03, 08 Nov 2010,ETH 1 up
10:58:03, 08 Nov 2010,ETH 0 up
10:58:01, 08 Nov 2010,USB-3 device 1 connected: EHCI root hub
10:58:01, 08 Nov 2010,USB-2 device 1 connected: EHCI root hub
10:58:01, 08 Nov 2010,USB-1 device 1 connected: EHCI root hub
10:58:01, 08 Nov 2010,Power control profile 0 activated
10:58:01, 08 Nov 2010,Power-up[],Reboot command
10:58:01, 08 Nov 2010,GPRS using SIM 1 (not present)
10:58:01, 08 Nov 2010,Eventlog Counters Reset
10:57:53, 08 Nov 2010,Reboot
10:57:53, 08 Nov 2010,PPP 1 down,LL disconnect
10:57:43, 08 Nov 2010,PPP 1 down,LL disconnect
10:57:41, 08 Nov 2010,DTR Up ASY 0
10:57:33, 08 Nov 2010,PPP 1 down,LL disconnect
10:57:23, 08 Nov 2010,PPP 1 down,LL disconnect
10:57:19, 08 Nov 2010,Par change by username, cmd 0 autocmd to bas rebootat.sb 11:00
```

6 SOURCE CODE FOR THE .SB FILE

```
' rebootat.sb: causes the Sarian to reboot at a specified time.
'
' Usage: bas rebootat.sb hh:mm
'
' To run at startup: cmd 0 autocmd "bas rebootat.sb hh:mm"
'
' This works by calculating the necessary delay (in minutes), and
' then running the "reboot n" command
'

const nl = "\r\n"
'
' Function to put an event in the eventlog
'
function MsgNonFatal(msg)
      local junk
      junk = system("setevent \"" & msg & "\"" & " 0")
      print msg, nl
end function


initial_time = command()

' initialise the initial on/off time
if initial_time <> "" then
      split initial_time by ":" to daily_hour, daily_min
      if val(daily_hour) < 0 OR val(daily_hour) > 23 OR val(daily_min) < 0 OR
val(daily_min) > 59 then
            MsgNonFatal("REBOOTAT: invalid time (" & initial_time & "),
ignored")
            initial_time = ""
            stop
      else
'           print "REBOOTAT: Time set to ", daily_hour, ":", daily_min,
"\r\n"
'           MsgNonFatal("REBOOTAT: Time=" & initial_time)
      endif
else
      MsgNonFatal("REBOOTAT: reboot time not set")
      stop
endif

tnow = GmTime()
' MsgNonFatal("Time now is: " & FormatDate("YEAR-0M-0D 0H:0m:0s", tnow))
```

```
treboot = timevalue(year(tnow), month(tnow), day(tnow), val(daily_hour),
val(daily_min), 0)
if treboot < tnow then
      treboot = treboot + 86400
endif

' calculate how many minutes before reboot
'
mins_delay = (treboot-tnow)\60 + 1


' MsgNonFatal("REBOOTAT: Delay before reboot=" & treboot-tnow & " secs")
MsgNonFatal("REBOOTAT: Delay before reboot=" & mins_delay & " mins")
junk = system("reboot " & mins_delay)
stop
```