



# Quick Note 30

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## Reboot a TransPort at a Certain Time of Day

Digi Technical Support

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# 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](mailto: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:

[Configuration - System](#) > [Date and Time](#)

▶ **Device Identity**

▼ **Date and Time**

Current system time: 1 Jan 1970 01:09:24

Manually set the time

Hours:  Minutes:  Seconds:   
Month:  Day:  Year:

Timezone:

Update for Daylight Saving Time

**Autoset Date and Time**

- Do not auto-set the system time
- Use SNTP to auto-set the system time
- Use NTP to auto-set the system time

SNTP (Simple Network Timer Protocol) configuration:

[Configuration - System > Date and Time](#)

▶ **Device Identity**

▼ **Date and Time**

Current system time: 1 Jan 1970 01:20:45

Manually set the time

Hours:  Minutes:  Seconds:

Month:  Day:  Year:

Timezone:

Update for Daylight Saving Time

**Autoset Date and Time**

Do not auto-set the system time

Use SNTP to auto-set the system time

SNTP Server:

Authorisation key #:

Authorisation key:

Check on Power-Up

Update:  every  hours

randomly between  and  seconds

Disable SNTP when interface:   is out of service

Use NTP to auto-set the system time

**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
```

**Configuration - System > General**

- ▶ Device Identity
- ▶ Date and Time
- ▼ General

**Autorun Commands**

You can configure some commands that will automatically run when the unit has booted up.  
(You may specify up to 10 commands)

Command
bas rebootat.sb hh:mm

Click **Apply** then Save the configuration.

Configuration successfully applied. Click [here](#) to save configuration.

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



## 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
```