

UPSSleep Utility for PowerChute Business Edition v10.0.X

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Introduction

UPSSleep is a feature that can shut down and reboot your UPS via the PowerChute REST interface.

For example, UPSSleep could be used with some job scheduling command file to shut down and reboot your UPS at specific dates and times.

When using the REST interface, you can use PowerShell for Windows, or cURL for Linux.

System Requirements

The PowerChute Agent Windows service, APC PBE Agent, must be running in order to use the utility.

Using the PowerChute REST interface

The PowerChute REST interface can be accessed locally at `https://localhost:6547/REST/upssleep`, or remotely at `https://[IPAddress]:6547/REST/upssleep`. **NOTE:** The IP address of the machine you have PowerChute installed on must be used.

PowerChute uses a self-signed certificate that must be installed on your Windows computer before accessing the REST interface. For more information, see Knowledge Base article [FA165288](#) available on the [APC website](#).

There are four available parameters you can use for UPSSleep:

Option	Argument	Description
command	UPSSLEEP	This parameter must be used in order to access the REST interface.
shutofftype	1 2 3 4	1 - The UPS remains off and you must manually turn the UPS back on. 2 - The UPS restarts when power returns. 3 - The UPS restarts after a delay. You must either specify a <code>sleeplength</code> or <code>wakeupTime</code> when using this argument. 4 - Do not turn off the UPS, and shut off the operating system.
sleeplength	<seconds>	Specify a duration, in seconds, that the UPS will turn off for. When the duration has elapsed, the UPS will turn back on. The minimum value is 360 seconds (6 minutes). NOTE: The shutdown durations configured in PowerChute must be less than the <code>sleeplength</code> duration.
wakeupTime	<time> <day> <date> <time>	Specify a specific time that the UPS will turn back on. The time must be entered in 24-hour format. For example, " <code>wakeupTime = 14:00 Friday</code> ". See Timing the UPS Reboot for more information.

Windows PowerShell example

Create a PowerShell script with the `.ps1` extension and edit it as shown below. To execute your script in PowerShell, navigate to the saved directory of the script and hit `ENTER`.

NOTE: You may need to enable script execution before you can execute your script. For more information, see [Set-ExecutionPolicy](#) in your [PowerShell documentation](#).

```
$username = "name"
$password = "password" | ConvertTo-SecureString -asPlainText - Force
$cred = New-Object
System.Management.Automation.PSCredential($username,$password)

$body = @{
    command = "UPSSLEEP"
    shutofftype = 3
    sleeplength = 360
}

# Use TLS v1.2
[Net.ServicePointManager]::SecurityProtocol =
[Net.SecurityProtocolType]::Tls12
```

```
Invoke-RestMethod -Method Post - Uri "https://localhost:6547/REST/upsleep"  
-Credential $cred -Body $body
```

Linux cURL examples

```
curl --user user:password --data  
"command=UPSSLEEP&shutofftype=3&sleeplength=360" -tlsv1.2 -X POST https://  
localhost:6547/REST/upsleep -k
```

```
curl --user user:password --data  
"command=UPSSLEEP&shutofftype=3&wakeupTime=12:35 Thursday" -tlsv1.2 -X POST  
https://localhost:6547/REST/upsleep -k
```

NOTES:

- If you use the `-k` command, cURL will communicate with the PowerChute REST interface if the certificate cannot be verified. For more information, consult your cURL documentation.
- The cURL version used on ESXi 6.5 and ESXi 6.0 update 3a is not compatible with PowerChute.

Timing the UPS Reboot

When you use the `wakeupTime` option, you can specify a reboot date and time in two different ways: see [Timing Method 1](#) and [Timing Method 2](#). For both methods, the time must be entered in 24-hour format.

NOTE: The minimum sleep time is 6 minutes, the maximum is one minute under two weeks, that is, 13 days 23 hours and 59 minutes.

Timing Method 1

This is the format of the command, where you specify the date and time of the reboot:

wakeupTime = [yyyy/mm/dd] [00:00]

For example: `wakeupTime = 2018/06/01 03:00`

This example would result in a reboot at 3 a.m. on the 1st of June, 2018.

The reboot time should be specified in 6-minute increments. If not, it is rounded down to the nearest 6 minutes. For example, if at 14:01, you execute with `UPSSleep 2018/09/02 14:08` the utility reboots the UPS at 14:07 (six minutes after 14:01).

Timing Method 2

This method can be useful in avoiding date conversion in scripts.

wakeupTime = [time] [day of the week] [1 or 2, representing the next 7 or 14 days]

In the final parameter above, 1 indicates the first 7 days after execution, 2 indicates the second 7 days.

(As the maximum sleep time is less than 14 days, the highest number you can enter for the week number is 2).

For example: `wakeupTime = 20:00 Monday 1`

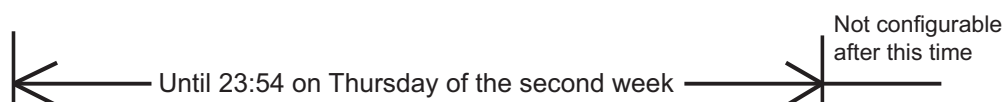
If you run the utility on a Thursday, this example would result in a reboot at 8 p.m. on the first Monday afterwards. See indication in red in the graphic below.

For example: `wakeupTime = 20:00 Monday 1`

If you run the utility on a Thursday, this example would result in a reboot at 8 p.m. on the second Monday afterwards. See indication in blue in the graphic below.



Similarly, using the example of an execution time of Thursday at 23:55, the graphic below indicates the longest sleep time that you can configure.



To achieve the maximum sleep time (13 days 23 hours and 59 minutes) here, you would use these parameter values:

`wakeupTime = 23:54 Thursday 2`

UPSSleep and Turn-on and Turn-off Delays

In the **Outlet Sequence** screen of the PowerChute Agent user interface, you should set any necessary delays for both turning off and turning on your outlet groups and UPS. When you run the UPSSleep utility, these delays are used.

The total turn-off delay time on **Outlet Sequence** is part of the sleep time you specify with the utility. So, for example, if you run the utility at 9 p.m., the turn-off delays are observed from that time before the outlet group or UPS shutdowns begin.

When the sleep time you specify has expired, the turn-on delays begin.

For example: wakeupTime = 2018/06/01 03:00

This causes the turn-on delays to begin at 3 a.m. on June 1st.

As standards, specifications, and designs change from time to time, please ask for confirmation of the information given in this publication.

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