SPS Quick Start Guide

SPS Overview

SPS(System Protect Software) is system protection software installed on a host. It associates the power supply with the receiving event alarm to safely shut down the system before the host is powered off, avoiding data damage or loss caused by abnormal power outages.

Keywords

| Name	Description
Power source	The UPS supply power to hosts
Event Alert	When an abnormal power supply occurs, the SPS host will receive an event notification and display an alarm or perform shutdown processing according to the notification type.
Shutdown Operation	After the SPS host receives the shutdown event alarm, it will handle the system in the following ways: shutdown, sleep or no action
Shutdown Script	Write the tasks that the SPS host needs to perform before shutting down in a script, which can be executed before shutting down the system
Shutdown Delay	When receiving a shutdown event alarm, start the shutdown countdown, delay for a specified period of time, and then execute the shutdown script and shutdown operation
Shutdown Duration	If you need to execute a shutdown script before shutting down the system, or the system shutdown time is long, you can adjust the shutdown time appropriately.

Workflow
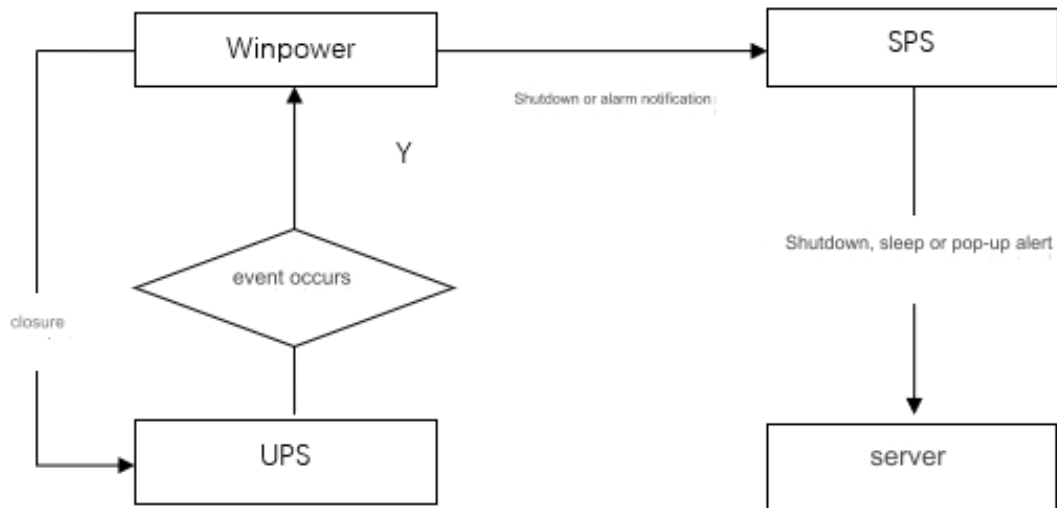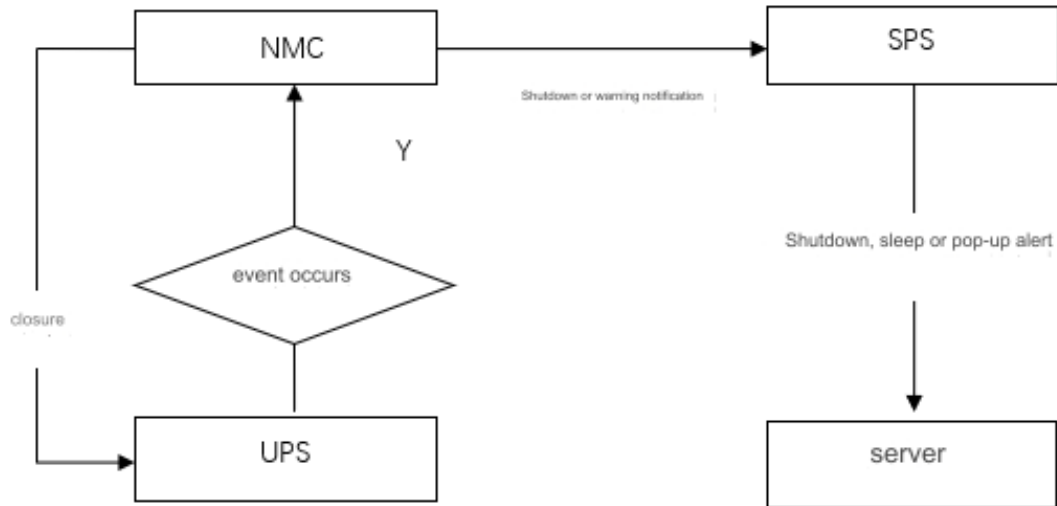
Installation

Install

The process for kinds of OS is different, to start installation guide:

➢ **Windows** – Uncompress the installation file, and right click installation file and "Run as administrator"
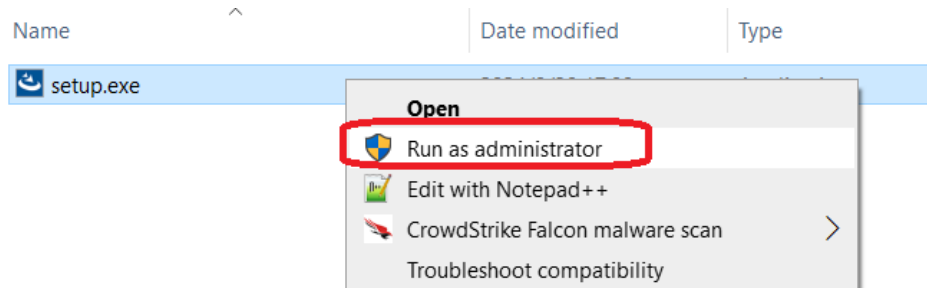
> ➢ **Linux** – open shell terminal and run this command to uncompress installation file: "tar -zxvf SPS*.tar.gz", then run as root "sudo ./setup.bin" or "./setup.bin" if you logged in as root.

> ➢ **MacOS** – uncompress the installation file and double click "setup", and the password of current logged user is required, input and continue.

Follow the installation guide and SPS software can be installed on the machine. SPS will start up automatically after the installation.

Visit web interface

Click the tray icon 🛡 from the status bar of operation system, and select the menu item "Open web interface". The web browser will open SPS home page. For linux, there may be no tray icon available, you can visit via the address "https://<Host IP>:9443/" directly.
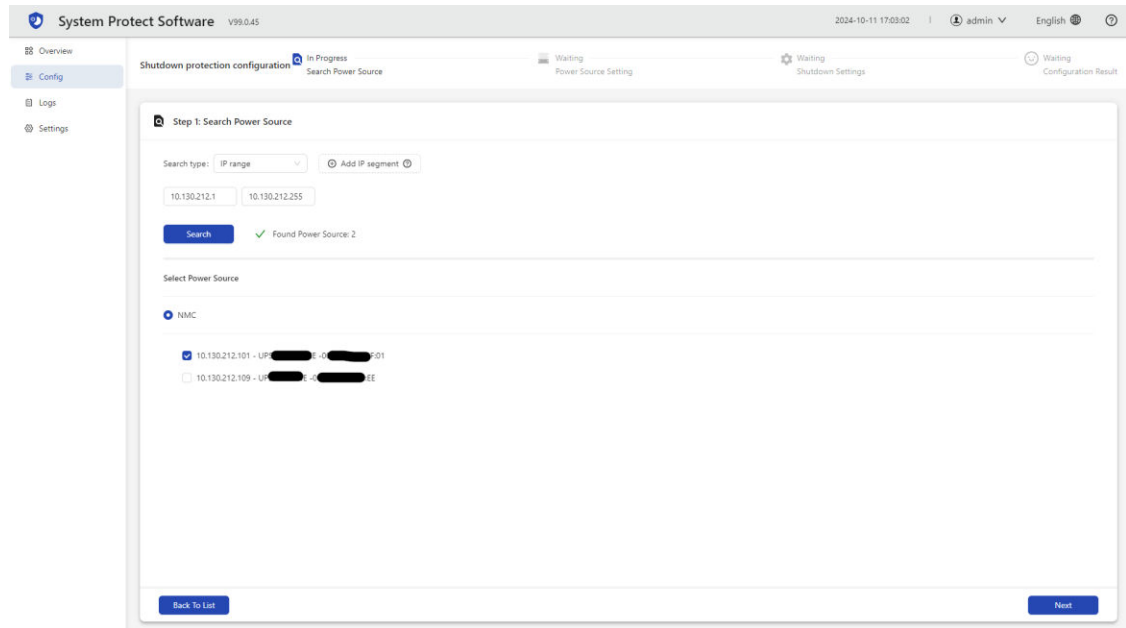
Operation Guide

Power source setup

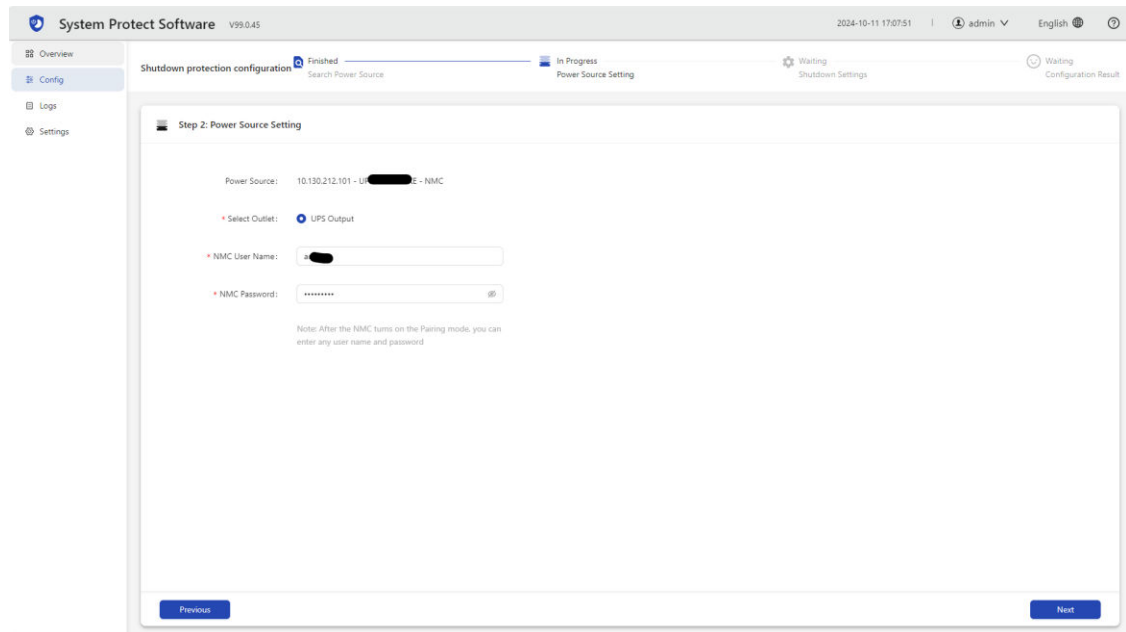In order for the SPS to protect the system, it needs to be powered.

1. Find a power source

   Enter the specified IP or IP range to scan the UPS device that supplies power to the current SPS host in the network

2. Verify access for the power source

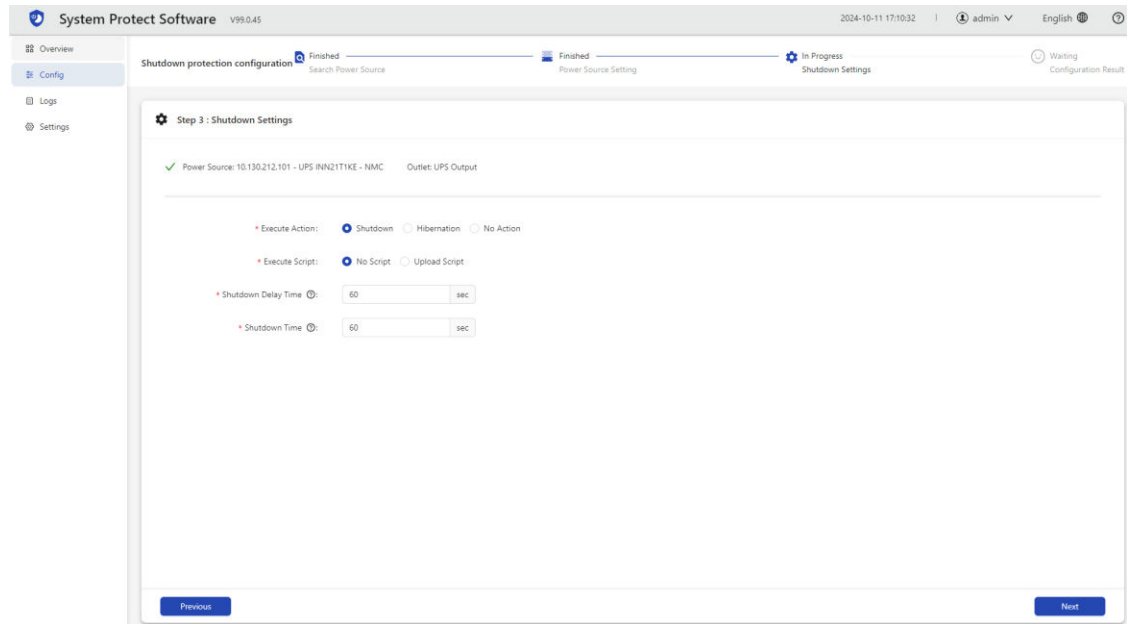   Select the power supply connected to the output of the SPS host, enter the username and password to access the UPS device to verify access rights

3. Shutdown settings

   In order for the SPS host to respond correctly when receiving a shutdown event from the power supply, shutdown settings are required.

Execution action - the processing method for the operating system, generally shutdown or hibernation. If you do not need SPS to protect the system, you can select "No execution operation"

Execution script - if you need to perform some tasks before shutting down the system, such as closing the database and application, you can set it in the upload script

Shutdown delay time - the time interval from the receipt of the shutdown alarm by SPS to the end of the shutdown countdown. During this period, SPS will display the shutdown countdown. If the power supply-related abnormality is restored, SPS will cancel the shutdown process

Shutdown time - the time interval from the end of the shutdown countdown to the system shutdown. In order for the shutdown script to run successfully and the system to shut down normally, it needs to be reasonably set according to the actual shutdown time of the system.

4. Power source overview

After the power source is set successfully, you can see the information on the overview page.
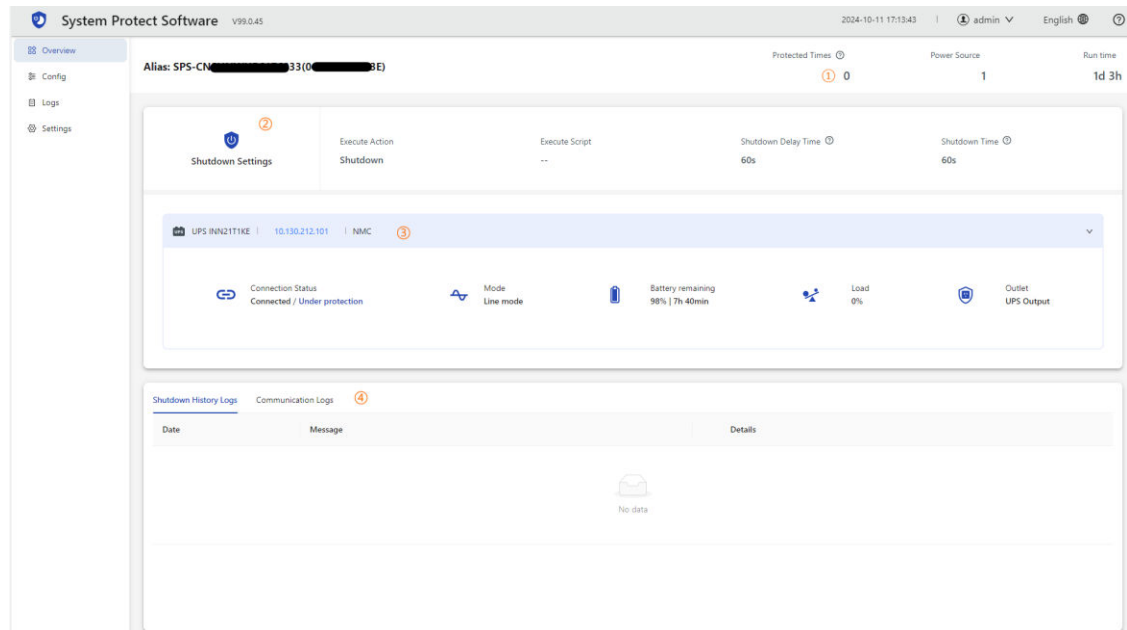
① Protected times: the number of times the SPS was shut down due to power source anomalies; Power source : the number of UPSs that power the SPS host. In the case of redundancy, there may be multiple UPSs that power the SPS host; Running time: the time interval from the start of the SPS service to the current time

② Shutdown settings: display the setting information of the SPS when performing shutdown processing in the future

③ Power source : display the status of the power supply, working mode, remaining battery power, load percentage, output switch and other information

④ Shutdown log/communication log: display the shutdown processing log executed by the SPS recently, and the abnormal communication information between the SPS and the power supply

Query log records
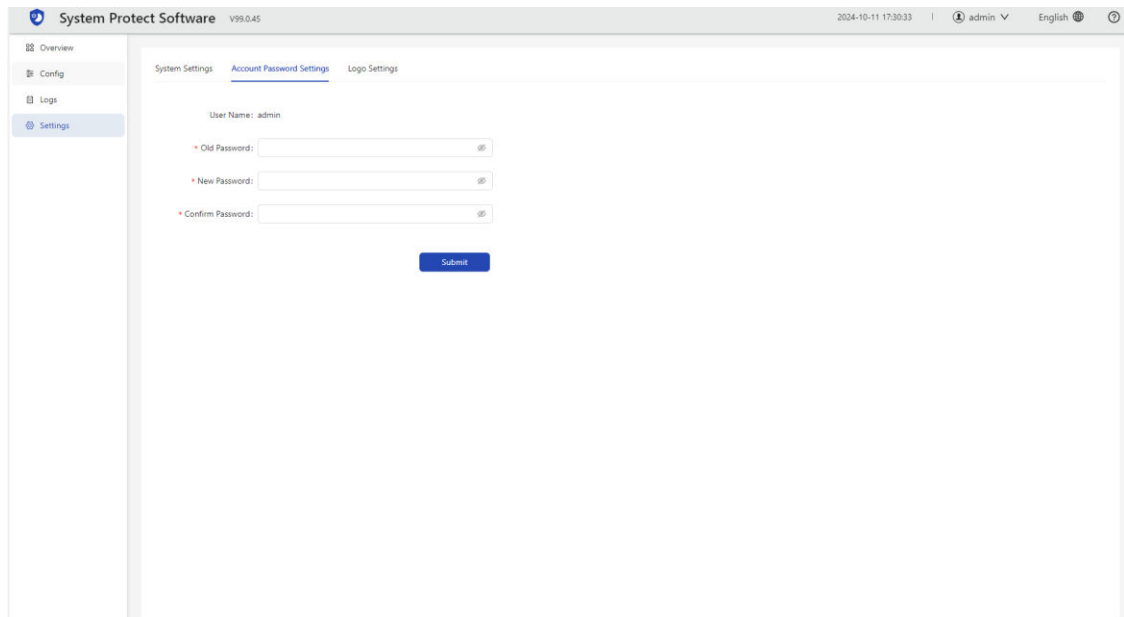
Log history can be queried based on log category, keyword and time period
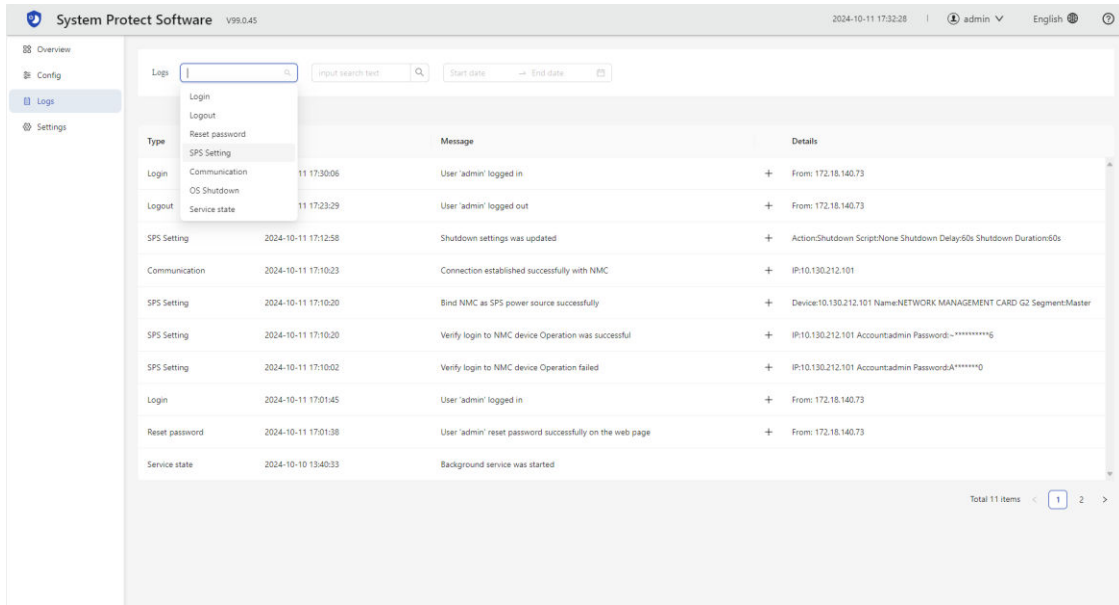
Others

After logging in to SPS, you can complete the relevant settings under the "Settings" menu

1. Change the system administrator admin password

The default password for the system administrator is admin. You need to change it after the first login. The new password must meet the following conditions:

a. Contain at least three of the following combinations of uppercase letters, lowercase letters, numbers and special characters

b. The length cannot be less than 8 lowercase characters and is greater than 16 characters

2. Change web service port for SPS

You can modify the SPS Web service port in the "Settings" -> "System Settings" menu. The new port must meet the following requirements:

a. Must be an integer between 0 and 65535

b. The port cannot be occupied by other applications

Save the new port to take effect after restarting the SPS service.

3. SPS supported operating systems

a. Windows: Win10 and above

b. Linux: Mainstream Linux distributions, the latest version is recommended

c. MacOS: Version 13.3.1 and above is recommended

Frequently asked questions

- How to reset the system administrator admin password if you forget it?
  If you forget the system administrator admin password, you can reset it in the following ways:

  Windows: Open cmd with administrator privileges and run:

    a. cd \bin

    b. Enter the cmd console: SPS.bat -i

    c. Select the reset password menu and follow the wizard

  linux/macos: Open the shell console and run:

    a. cd /bin

    b. Enter the shell console: ./SPS -i

    c. Select the reset password menu and follow the wizard

  After the operation is completed, you can log in with the new password.

- How to modify the interface logo icon?

The interface logo icon supports png and jpg formats (recommended resolution 16x16 pixels). To modify the icon: Log in to SPS -> Open the "Settings" menu -> Click "Logo Settings" -> Upload the icon file, the new icon will be displayed after the status changes.