OMRON

Automatic shutdown software

PowerAttendant Standard Edition

Linux version Ver.2.3.0

Instruction manual

Before you begin

This instruction manual contains important information for using the software, so please be sure to read it before use.

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Eligible Products

- This instruction manual covers the following products.
  - PowerAttendant Standard Edition for Linux

Target Readers

- This instruction manual is intended for the following people.
  - Knowledge of using software for Linux and responsible for the implementation and operation of UPS

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Precautions for use

< How to Use the Software>

This software is designed and manufactured for use with computers and other office automation equipment or FA equipment. Do not use it in equipment or applications that require extremely high reliability and safety, such as:

- Medical devices and systems that are directly related to human life
- Uses that can lead to personal injury（Applications directly related to the operation, operation, and control of aircraft, ships, railways, elevators, etc.）
- Applications such as vehicles and ships where vibration may be constantly applied
- Uses that could cause significant social or public harm or impact if failed
  （Major electronic computer systems, trunk line communication equipment, public transportation systems, etc.）
- Equipment and applications equivalent to these

< Use of the Software>

・ Install antivirus software on the PC you use this software on to reduce the risk of virus infection. Also, make sure your antivirus software is always up to date.

・Keep the OS of the PC using this software up to date to avoid security risks caused by OS vulnerabilities.

・ For adding features, improving usability, and strengthening security, always use the latest version of this software.

・Set and manage passwords used in this software properly so that they are not misused by others.

・ For control systems and device networks, install a firewall (blocking unused communication ports, restricting communication hosts), separate them from IT networks, and make sure connections to control systems from this software are made within the firewall.

・If you connect external storage devices like USB drives to the PC using this software, run a virus scan on the device before connecting.

・ To prevent unauthorized access or operations, perform user authentication on the PC using this software.

・To check that no unauthorized access or operations have occurred, monitor the access logs of the PC using this software.

・ Use the PC running this software in a secure area.

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    The arbitrator's award shall be final and binding on the parties to this Agreement.

13. This Agreement shall be prepared in Japanese and the English version shall be used as a reference translation. If there is any discrepancy between the content of the Japanese version and the content of the English version of the reference translation, the content of the Japanese version shall prevail.

How to read the instruction manual

What is stated in this instruction manual

This section provides an overview of the functions of this software, how to operate it, how to set it up, how to connect it to an uninterruptible power supply (UPS), etc.
For an explanation of the UPS itself, please refer to the instruction manual of each UPS.

About Mark

Please
Indicating that the Software should be implemented or avoided in advance to prevent the Software from being inoperable, malfunctioning, or adversely affecting its performance or functionality.

Note
This is an item that I would like you to read if necessary.
It explains useful information to know and what you can refer to when using it.

Shows the location for more information and related information.

About notation

This instruction manual describes the items and buttons on the software screen as follows.

「 」 .....This is the item displayed on the screen that represents the screen name and settings.
Example: Shutdown Parameter Tab
[ ] button .....The items displayed on the screen represent the objects to be operated (buttons that can be clicked).
Example: [Next] button
Software .....Refers to「PowerAttendant Standard Edition」.

Glossary

Except as otherwise explained, this instruction manual uses the following terms:

Terminology	Commentary
UPS	It is an uninterruptible power supply. This device provides stable power to connected devices in the event of an abnormality in the utility power supply.
Connected Equipment	It is a device that connects to a UPS and receives power from the UPS battery in the event of a power outage.
Commercial power supply	It is the electricity transmitted by the power company.
AC Input	It is the power supplied from a utility power source to a UPS.
Power output	It is the power supplied from the UPS to the connected devices.
Standby mode	Power is supplied to the UPS from the utility power supply, but the UPS is not turned on.
Commercial operation, commercial mode	It is an operating state in which power is supplied from the utility power supply to the UPS, and power is supplied from the UPS to the connected devices.
backup operation, Battery Mode	This is an operating condition in which an AC input abnormality occurs and power is supplied from the UPS battery to the connected devices.
Cold Start	Even when there is no AC input, the UPS is started with battery power to supply power to the connected devices.
Self-diagnostic tests	This test is used to detect UPS failure or battery degradation.
Product Number	This is the serial number, serial number, S/N, and SN of the UPS used with the software.
Cooperation Shutdown	In the event of an input power failure (power outage, etc.), multiple computers on the same network are automatically shut down in conjunction with each other. It consists of one primary and one or more secondary.
Primary	In the configuration of the cooperation shutdown, it is directly connected to the UPS and performs an automatic shutdown when it recognizes that an input power failure (power outage, etc.) has occurred. The primary can be either the computer on which the Software is installed.
Secondary	This is the role of working with the primary and network to perform automatic shutdown. The secondary is the computer on which the Software is installed.
RHEL	Red Hat Enterprise Linux, one of the Linux operating systems, is referred to as RHEL.

Operating Environment

The operating environment of this software is as follows.

■ Supported OS

Red Hat Enterprise Linux
10.1/10.0 /9.7/ 9.6 / 9.5 / 9.4 / 9.3 / 9.2 / 9.1 / 9.0
8.10 / 8.9 / 8.8 / 8.7 / 8.6 / 8.5 / 8.4 / 8.3 / 8.2 / 8.1 / 8.0
Alma Linux
10.1/10.0 / 9.7/9.6 / 9.5 / 9.4 / 9.3 / 9.2 / 9.1 / 9.0
8.10 / 8.9 / 8.8 / 8.7 / 8.6 / 8.5
Rocky Linux
10.1/10.0 /9.7/ 9.6 / 9.5 / 9.4 / 9.3 / 9.2 / 9.1 / 9.0
8.10 / 8.9 / 8.8 / 8.7 / 8.6 / 8.5
MIRACLE LINUX
9.6 / 9.4 / 9.2 / 9.0
8.10 / 8.8 / 8.6 / 8.4
Oracle Linux
10.1/10.0 /9.7/ 9.6 / 9.5 / 9.4 / 9.3 / 9.2 / 9.1 / 9.0
8.10 / 8.9 / 8.8 / 8.7 / 8.6 / 8.5
Ubuntu
26.04 / 24.04 / 22.04

■ Supported CPU Architectures

Intel/AMD x64

■ Languages

It can be set by the language setting of the browser.
Japanese
English
Chinese

■ Supported browsers

Google Chrome
Firefox (Ver.78.3 or later)

■ UPS

S8BA-24D24D120LF
S8BA-24D24D240LF
S8BA-24D24D360LF
S8BA-24D24D480LF
S8BA-24D24D480SBF
S8BA-24D24D960SBF

■ Connection Interface

Connecting with UPS : USB / RS-232C

What you can do with this software:

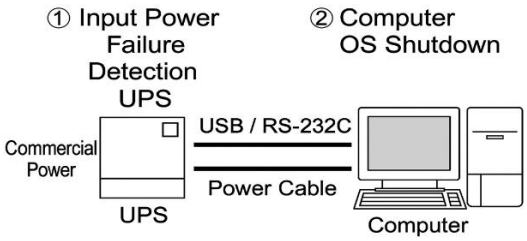
PowerAttendant Standard Edition (hereinafter referred to as the Software) can perform an automatic shutdown function. The automatic shutdown function constantly monitors the status of the uninterruptible power supply (UPS) connected to the computer, and shuts down the computer normally when an input power failure (power outage, etc.) occurs. This feature prevents damage to the OS and hard disk.
Learn about the main features of this software.

Automatically shut down computers connected to UPS in the event of input power failure

In the event of an input power failure (e.g., power outage), the computer will automatically shut down before the power output from the UPS stops to protect the data and software of the computer connected to the UPS.

- For more information, 「5. Set the automatic shutdown function (Shutdown Parameter)」（page 54).

Use a USB or RS-232C cable to successfully terminate the OS of the computer directly connected to the UPS. It is a configuration that connects the UPS and the computer one-to-one.



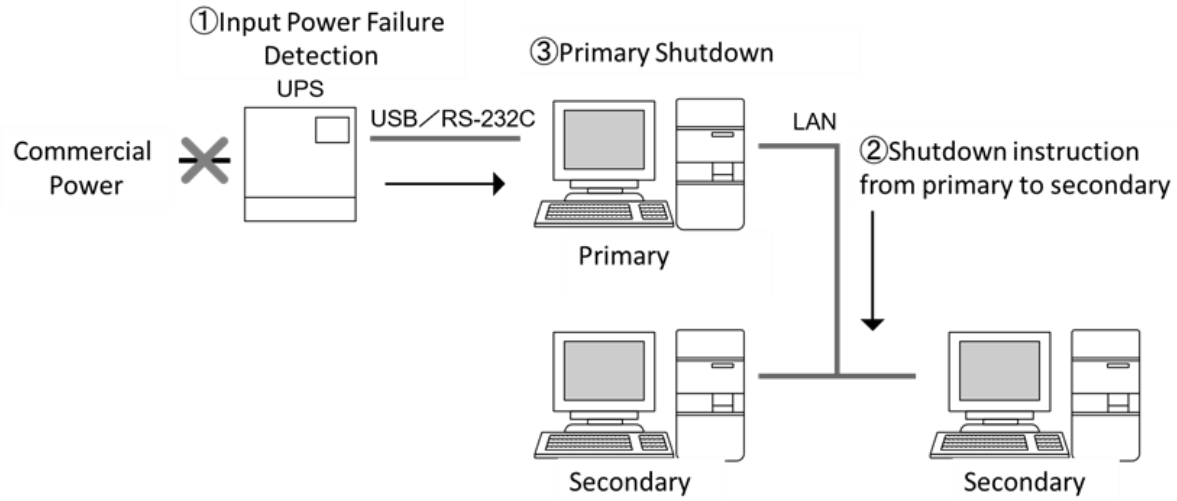
Automatically shut down multiple computers in the event of an input power failure

When an input power failure (such as a power outage) occurs, it automatically shuts down multiple computers connected to the network, along with the computers connected to the UPS. Install the software on all computers you want to shut down automatically.

- For more information, 「8. Automatically shutdown multiple computers (Cooperation Shutdown)」（page 69).

Choose whether to install the software on the computer directly connected to the UPS or on the secondary computer that you want to shut down automatically and connect it to the network.

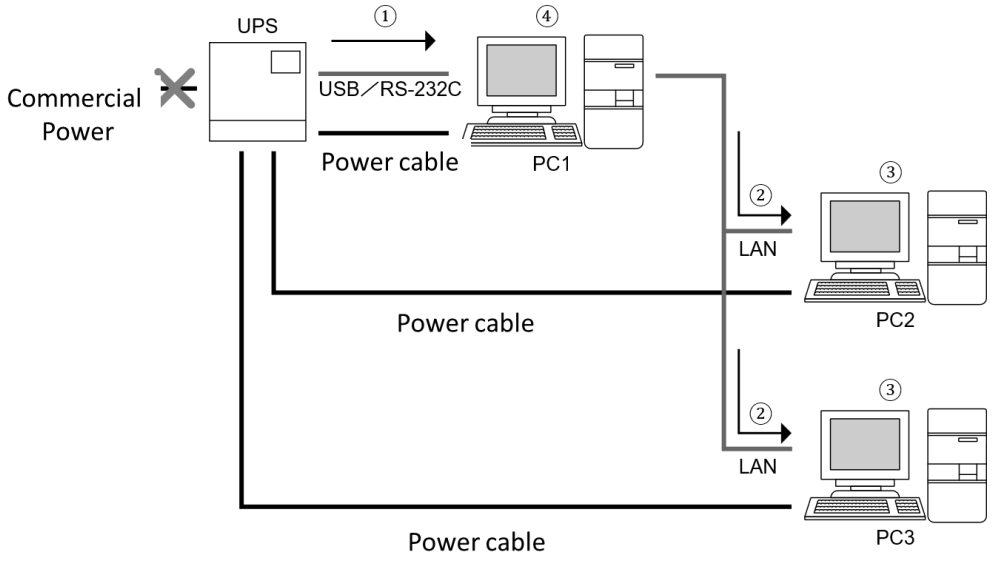
On a computer on which the primary installs the Software



Run scripts when running automatic shutdown

When the automatic shutdown is executed, the software can automatically connect to other computers and other devices via the network to execute scripts.
It is used, for example, when you want to automatically shut down devices such as computers that use operating systems other than Linux and cannot install this software.

● For more information, 「9. Run scripts under set conditions (Smart Task)」（page 73）.



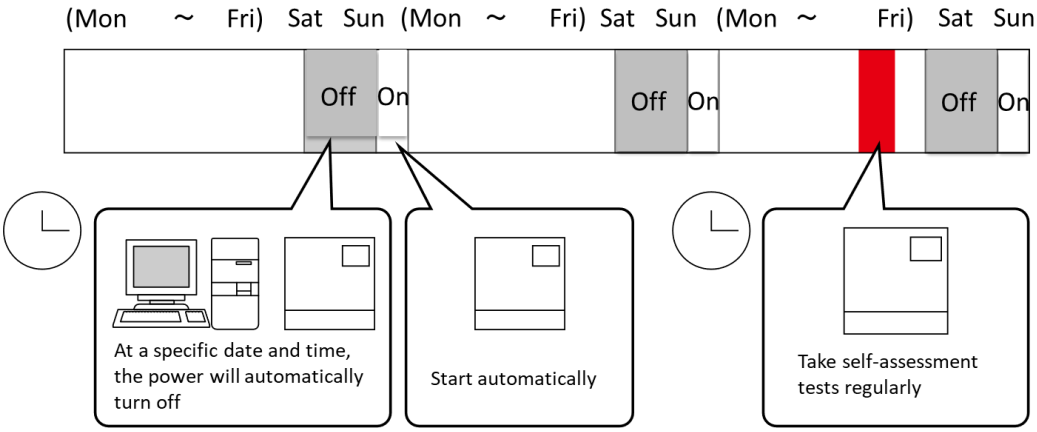
< Flow of shutdown operation>

① “PC1” on which the Software is installed detects an input power failure.
② "PC1" sends a shutdown command script to “PC2” and “PC3” on the same network.
③ The shutdown command is executed on "PC2", “PC3” to shutdown.
④ “PC1” shutdown.

Automatically shut down your UPS and computer on a set schedule

You can automatically shut down your computer according to a preset schedule.
You can also have them perform UPS self-diagnostic tests on a regular basis.

● For more information, 「10. Register a schedule and perform the set actions」(page 82).



Basic

From connecting the UPS to your computer to checking the shutdown log, we'll walk you through the basic setup steps for the automatic shutdown feature.

Procedure for setting up the automatic shutdown function

Follow these steps to set up the automatic shutdown feature:

UPS Installation	Install the UPS. Connect the equipment you want to shut down to the UPS. 「1. Connect your computer to the UPS with a communication cable」(page 16)
Installing the Software	Install the Software on the computer that will automatically shut down. 「2-1 Installation Instructions (page 18)
Launching the Software	Start the software. 「2-2Launch the Software」(page 43) Configure the settings at the first start. 「2-3 Initial Startup Settings」(page 45)
Configuring the Auto Shutdown Function	The top screen will appear, so make sure you are connected to the UPS. 「4. Check UPS Status」(page 53) Set up the automatic shutdown function. 「5. Set the automatic shutdown function (Shutdown Parameter)」(page 54)
Operational Testing	We will test the operation to ensure that the automatic shutdown function works normally. 「6. Perform a Behavioral Test」(page 60)
Check the logs	Check if the results of the operation test are logged. 「7. Check the logs」(page 61)

1. Connect your computer to the UPS with a communication cable

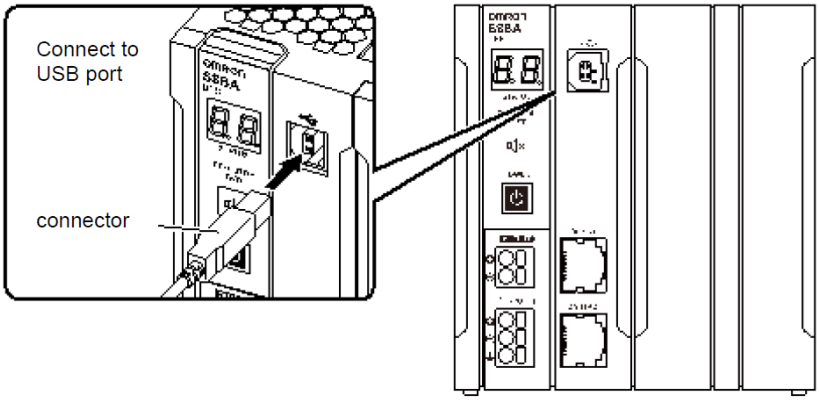
Connect your computer and UPS with a USB cable or RS232C cable.

1-1 Connect via USB

Connect your computer and UPS with a USB cable.

1. Turn off your computer.

2. Connect your computer to the UPS with the USB cable that came with your UPS.



3. Power on the UPS → computer in order.

Note

The USB cable is fine if you connect it after the computer boots up.

1-2 Connecting via RS-232C

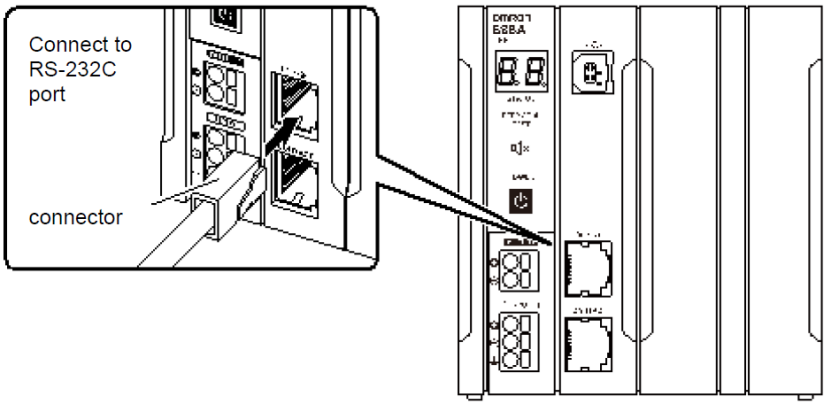
Connect your computer to the UPS with an RS-232C cable.

Please

For the RS-232C cable, please use the cable included with the UPS or choose the separately sold S8BW-C01 cable.

1. Turn off your computer.

2. Connect your computer to the UPS with an RS-232C cable.



3. Tighten the fixing screws on the RS-232C cable to secure the connector.

4. Power on the UPS → computer in order.

Please

When connecting a computer to the RS-232C, please perform the "Serial Port Setting" of this software first.
In "Serial Port Setting", set the serial port to be used to connect with the UPS.

2. Install the software

2-1 Installation Instructions

This section describes the installation of this software.

2-1-1 Before installation

- This software cannot be used with anything other than Omron UPS.
- If you are using other automatic shutdown software, be sure to uninstall the software, restart the operating system, and then install this software.
  For instructions on how to uninstall each software, refer to the respective instruction manual.
- Before installing this software, please connect it with your UPS.
- Log in to your computer with a username with root permissions.
- Quit other applications that are running.
- A GUI environment (GNOME3) is required to use this software. Install the GUI environment before installing the software.

Please

The following programs are required to use the software on RedHat distributions. It depends on the type and version of the OS. You will need a program with a circle on the table below.

Program		Versions	RHEL 8.X series ※1	RHEL 9.X series ※2	RHEL 10.X series※3
.NET 10.0	aspnetcore-runtime-10.0 ※4	10.0	○	○	○
	dotnet-runtime-10.0	10.0	○	○	○
Desktop Enhancements	libappindicator-gtk3	12.10.0 or later	○		
	gnome-shell-extension-appindicator	After 43		○	○
Others Library	Openssl	1.0.2k or later	○	○	○
	Zlib	1.2.7 and later	○	○	○
	libssh ※5	1.4.3 and later	○	○	○

※1 RHEL8.X series includes AlmaLinux8.X, Rocky Linux8.X, Oracle Linux8.X, and MIRACLE LINUX8.X.

※2 RHEL9.X series includes AlmaLinux9.X, Rocky Linux9.X, Oracle Linux9.X, and MIRACLE LINUX9.X.

※3 RHEL10.X series includes AlmaLinux10.X, Rocky Linux10.X, and Oracle Linux10.X.

※4 By installing aspnetcore-runtime-10.0, dotnet-runtime-10.0, openssl, and zlib are installed at the same time.

※5 It is usually installed as a standard library of OS. Make sure it's installed.

Depending on your operating system, the detailed installation steps will vary. Please refer to the installation instructions for your operating system.

OS	Installation Instructions
RHEL8. X series ※1	「2-1-2 Installation instructions on RHEL8.X series」(page 20)
RHEL9. X series ※2	「2-1-3 Installation instructions on RHEL 9.X series」(page 26)
RHEL10. X series ※3	「2-1-4 Installation instructions on RHEL10.X series」(page 33)
Ubuntu	「2-1-5 Installation instructions in Ubuntu」(page 40)

※1 RHEL8.X series includes AlmaLinux8.X, Rocky Linux8.X, Oracle Linux8.X, and MIRACLE LINUX8. X.

※2 RHEL9.X series includes AlmaLinux9.X, Rocky Linux9.X, Oracle Linux9.X, and MIRACLE LINUX9. X.

※3 RHEL10.X series includes AlmaLinux10.X, Rocky Linux10.X, and Oracle Linux10.X.

2-1-2 Installation instructions on RHEL8.X series

※ RHEL8.X series includes AlmaLinux8.X, Rocky Linux8.X, Oracle Linux8.X, and MIRACLE LINUX8.X.

(1) Installing .NET 10.0

Please

・This software can only operate When using ".NET 10.0". It will not function properly with anything other than ".NET 10.0," so please be sure to use ".NET 10.0."

1. Enter the following command on the terminal screen to install .Net 10.0.

```
dnf install aspnetcore-runtime-10.0 -y
```

(Here, dotnet-runtime-10.0 is also installed at the same time.)

This concludes "(1) Installing .Net10.0".

Go to "(2) Install the desktop extension".

(2) Install the desktop extension

Please

・A GUI environment (GNOME3) is required to use this software.
Before installing this software, please install the GUI environment

1. Enter the following command on the terminal screen to install the desktop extension.

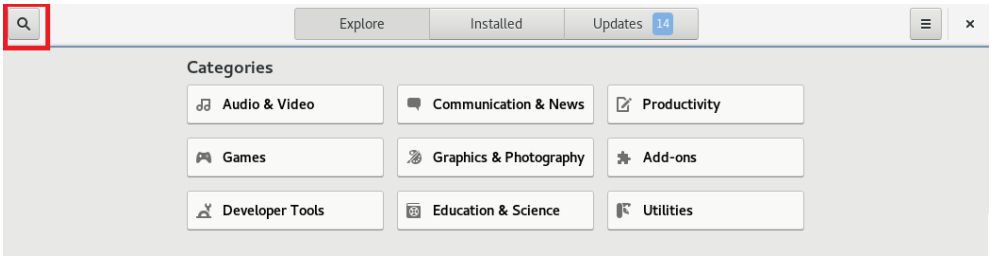
```
dnf install libappindicator-gtk3 -y
```

2. To activate the implementation so far, please log out and log back in.

3. Set up the desktop extension.

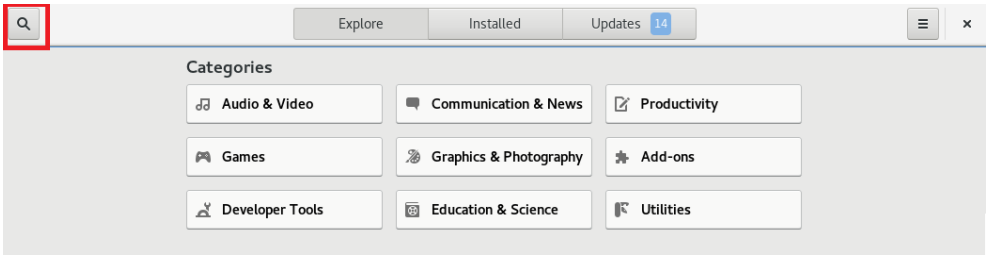
(1) In the case of GNOME Standard

Open the Activity ⇒ software and click to bring up the search field.

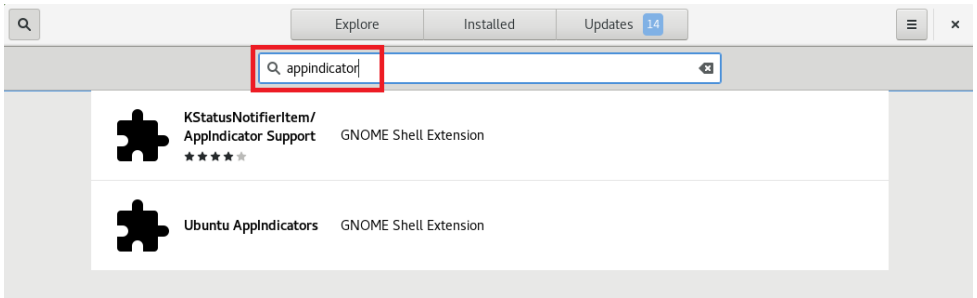


(2) For GNOME Classic

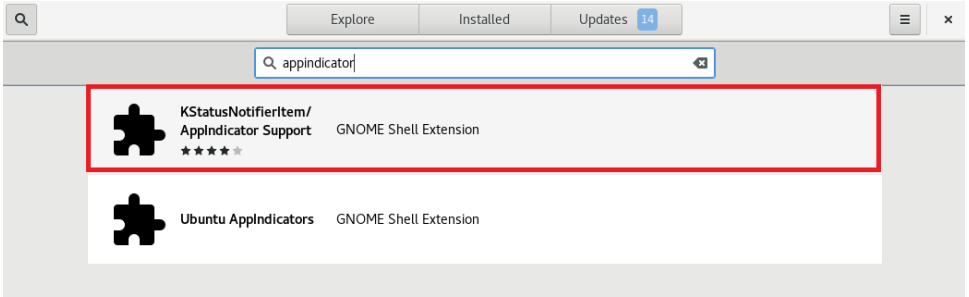
Open the application ⇒ System Tools ⇒ Software and click to bring up the search field.



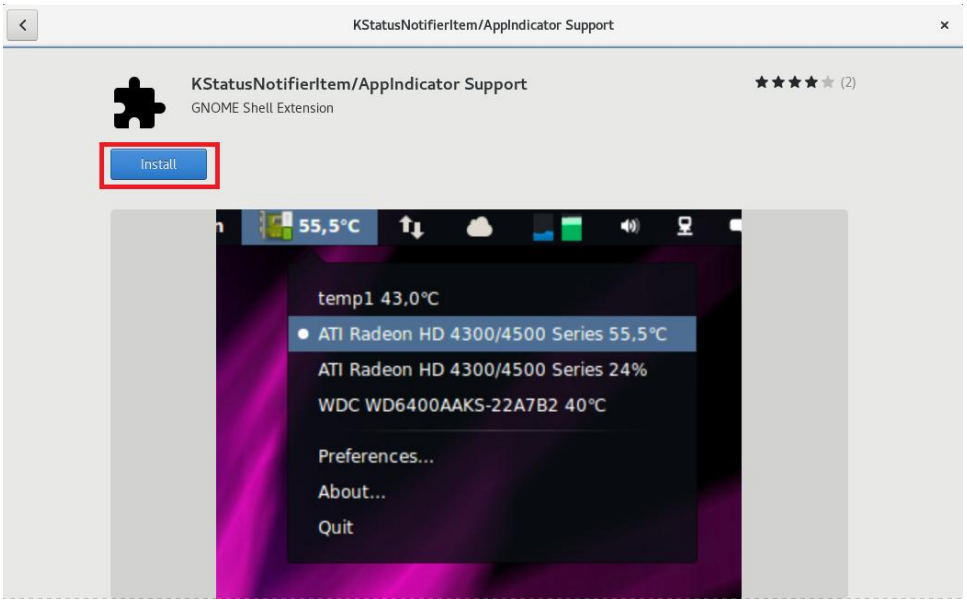
4. In the search field, type appindicator.



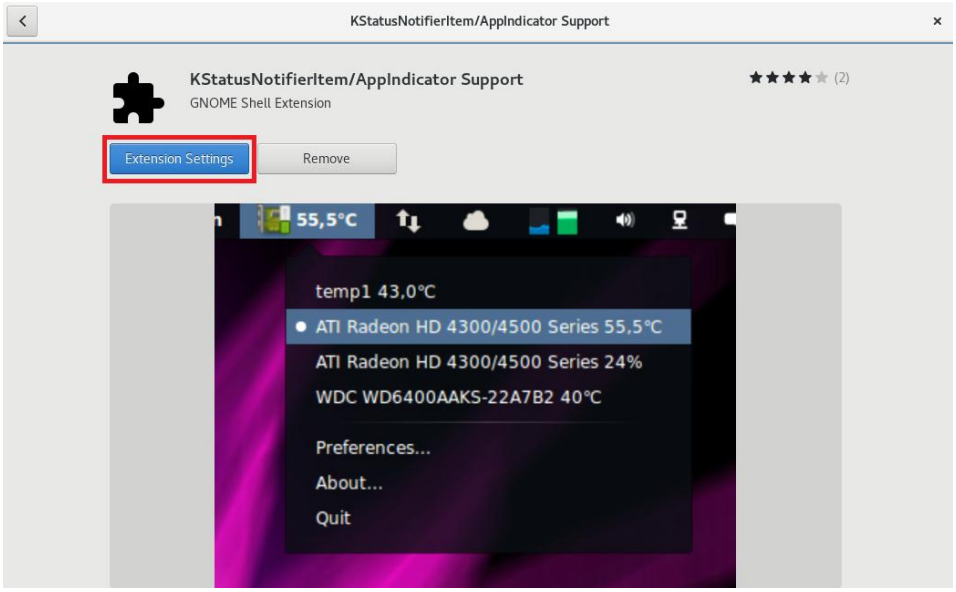
5. Select KStatusNotifierItem/AppIndicator Support.



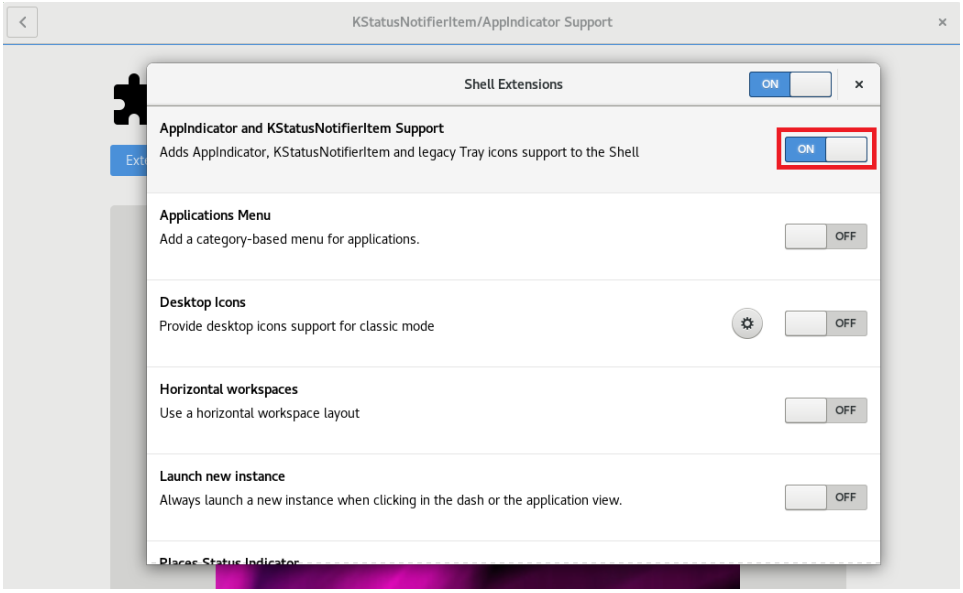
6. When the KStatusNotifierItem/AppIndicator Support screen opens, click Install (I) to install the extension.



7. Click on "Extension Settings" after installation.



8. Set the AppIndicator and KStatusNotifierItem Support settings to On.



This completes the installation of "(2) Desktop Extension".
Go to "(3) Installing the Software".

(3) Installation of the Software

1. Unzip the Software downloaded from the Company's website on the computer where it is installed.

2. Go to the unzipped directory and enter the following command on the terminal screen to install the software.

```
rpm -i PowerAttendant-2.3.0-1.x86_64.rpm
```

3. You will see a software license form, enter "y" if you agree and press enter. If you do not agree, enter "n" and finish the installation.

omron@localhost:/home/omron — rpm -i PowerAttendant-2.2...

```
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
ndered by arbitrator(s) shall be final binding upon the parties hereto.

 14 This English version of this Agreement is prepared for reference purpose onl
y. In the event of any conflict or inconsistency between the Japanese version ar
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ]
```

4. Enter the HTTP port number you want to use with the software and click the Next button.
You need to set the HTTP port number to be used to display the screen of the Software in the browser.

```
omron@localhost:/home/omron — rpm -i PowerAttendant-2.2...
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
ndered by arbitrator(s) shall be final binding upon the parties hereto.

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y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]:
```

Please set a different HTTP port number within the range of 1 to 65535.

5. If you see the following indications, the installation is complete.

```
omron@localhost:/home/omron
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
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y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]: 80
Created symlink /etc/systemd/system/multi-user.target.wants/powerattendantd.serv
ice → /etc/systemd/system/powerattendantd.service.
Installation of PowerAttendant is finished.
[root@localhost omron]#
```

Close the terminal screen.

6. Log out and log back in to activate the settings.

This concludes the installation procedure for RHEL8.X series.

2-1-3 Installation instructions on RHEL 9.X series

※ RHEL9.X series includes AlmaLinux9.X, Rocky Linux9.X, Oracle Linux9.X, and MIRACLE LINUX9.X.

(1) Installing .NET 10.0

Please

・This software can only work when using ".NET 10.0".
It does not work properly with anything other than ".NET 10.0", so please be sure to use ".NET 10.0".

1. Enter the following command on the terminal screen to install .Net 10.0.

```
dnf install aspnetcore-runtime-10.0 -y
```

(Here, dotnet-runtime-10.0 is also installed at the same time.)

This concludes "(1) Installing .Net 10.0".

Go to "(2) Install the desktop extension".

(2) Install the desktop extension

Please

・A GUI environment (GNOME3) is required to use this software.
Before installing this software, please install the GUI environment

1. Enter the following command on the terminal screen:

dnf install epel-release -y

If the above command gives you an error, run the following command:

dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-9.noarch.rpm -y

(This is one command above.) Please continue to enter line breaks without spaces.

2. Enter the following command on the terminal screen to install the desktop extension:

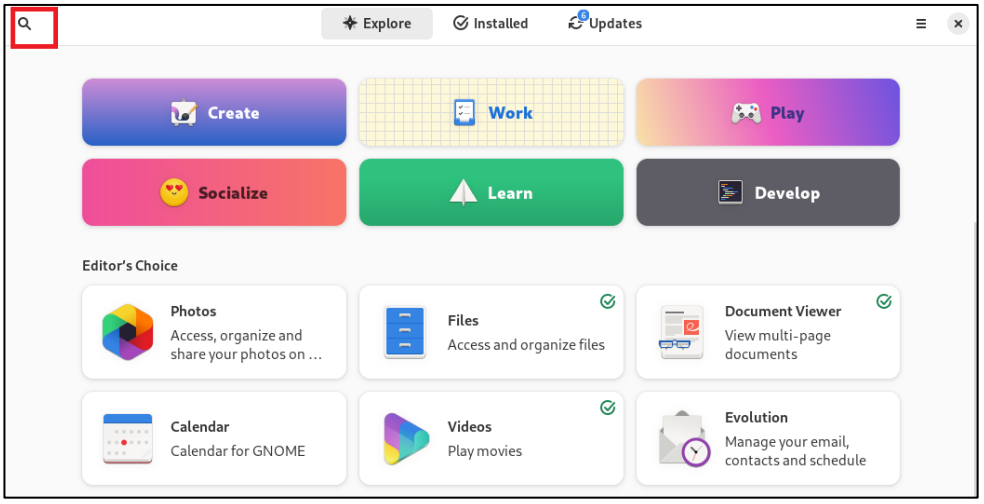
dnf install gnome-shell-extension-appindicator -y

3. To activate the implementation so far, please log out and log back in.

4. Set up your desktop extension.

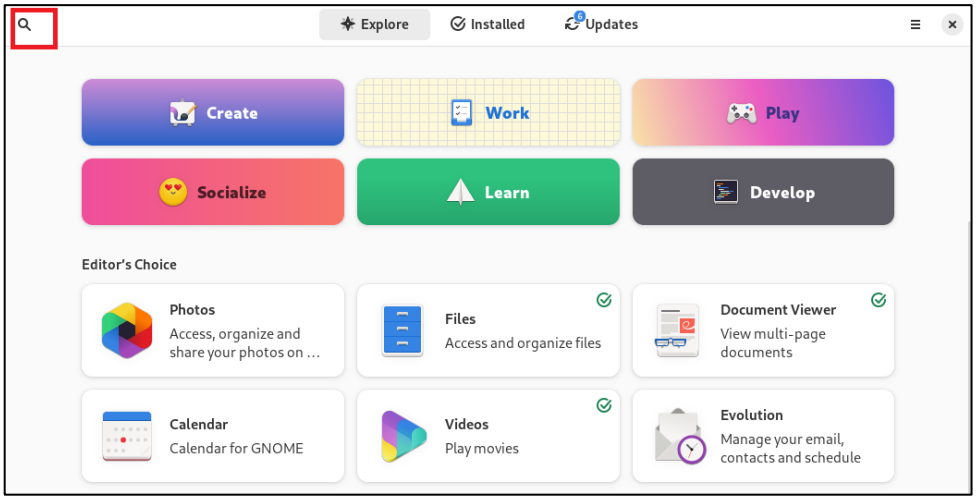
(1) In the case of GNOME Standard

Open the Activity ⇒ software and click to bring up the search field.

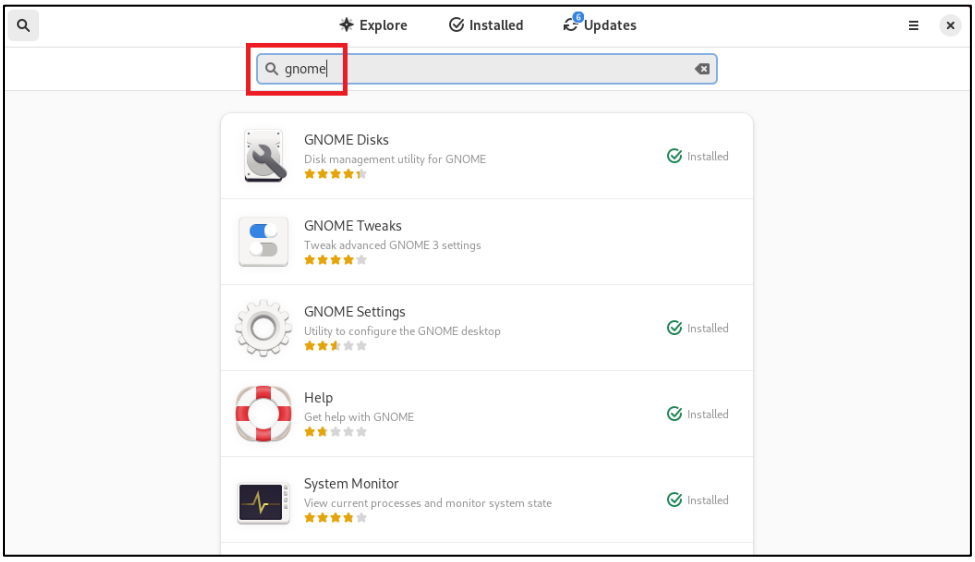


(2) For GNOME Classic

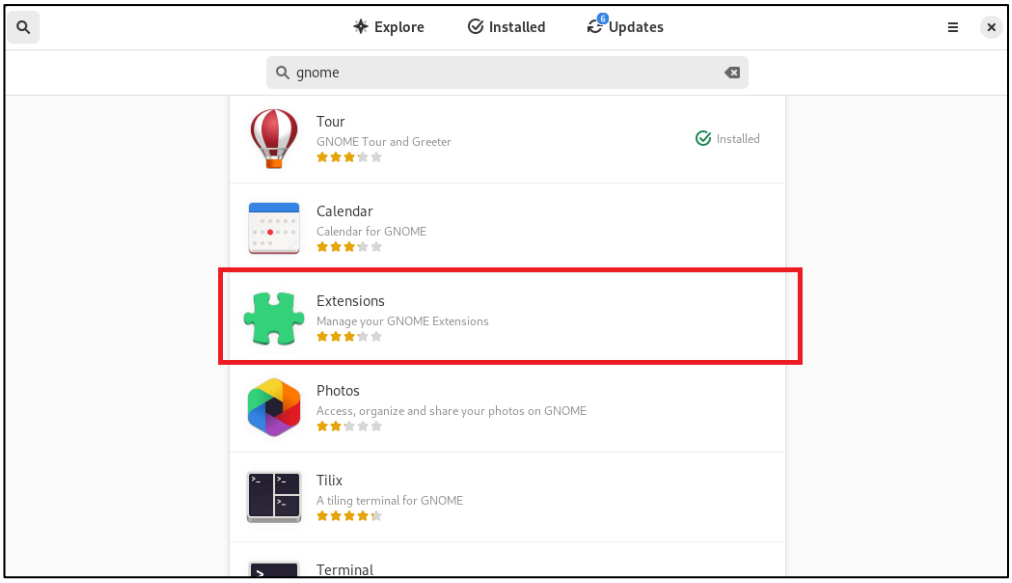
Open the application ⇒ System Tools ⇒ Software and click to display the search field.



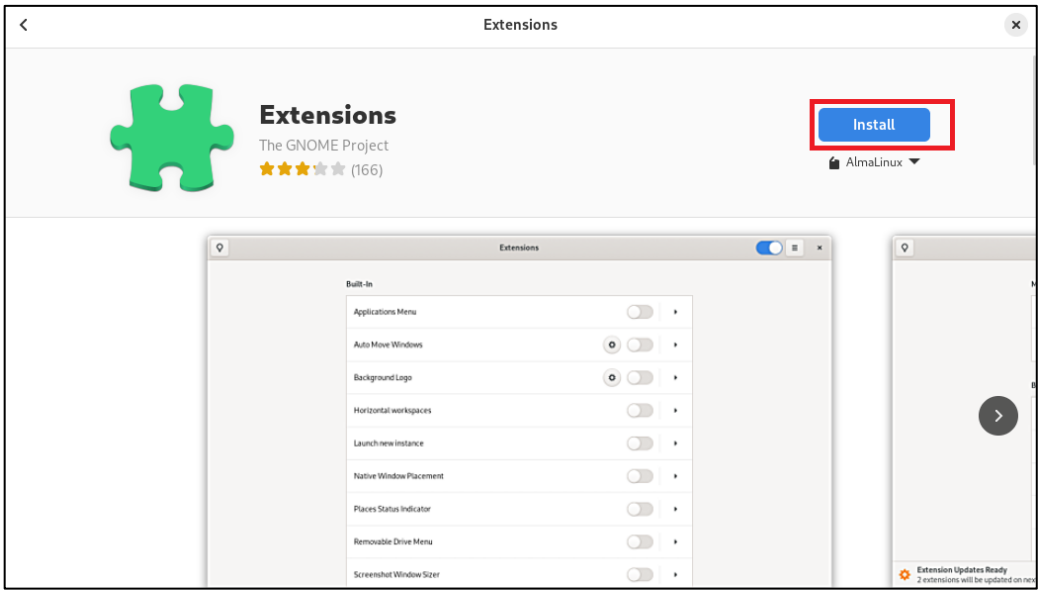
5. In the search field, type gnome.



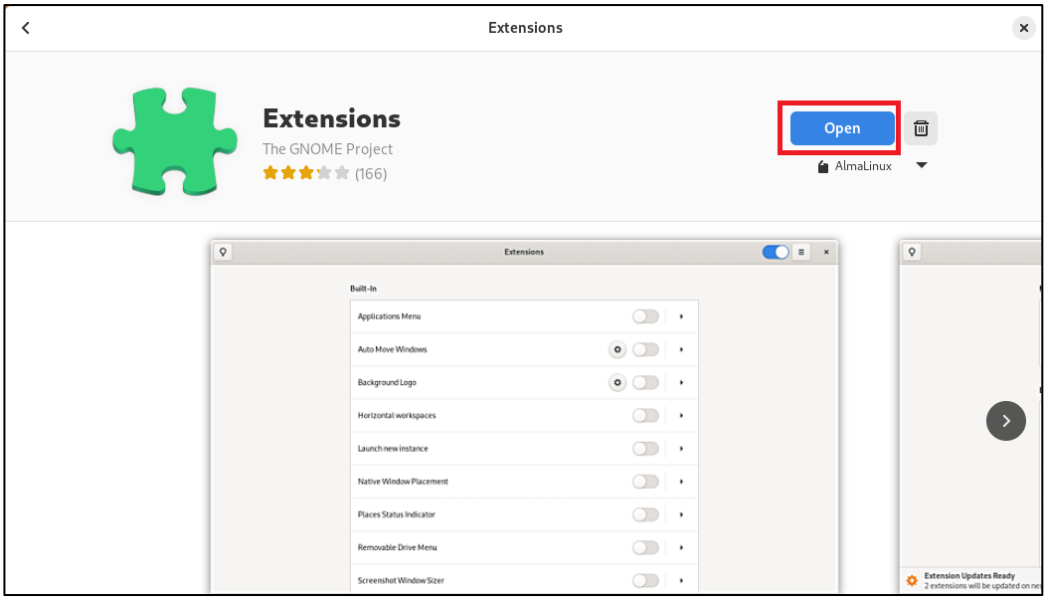
6. Select Extensions.



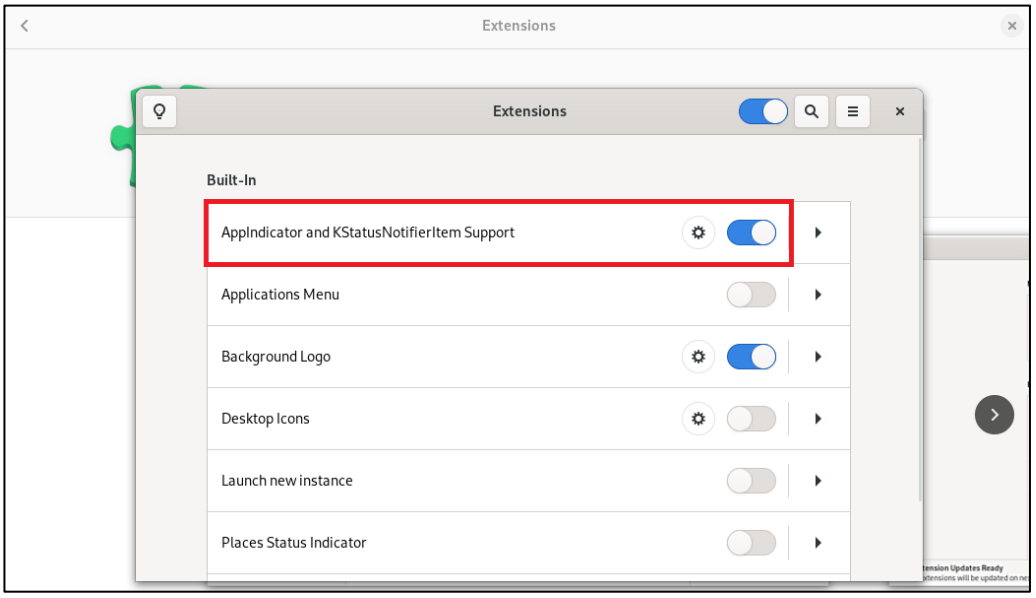
7. When the Extensions screen opens, click "Install (I)" to install the extension.



8. Click Open (O) after installation.



9. Enable the AppIndicator and KStatusNotifierItem Support settings.



This concludes "(2) Installing the desktop extension".

Go to "(3) Installing the Software".

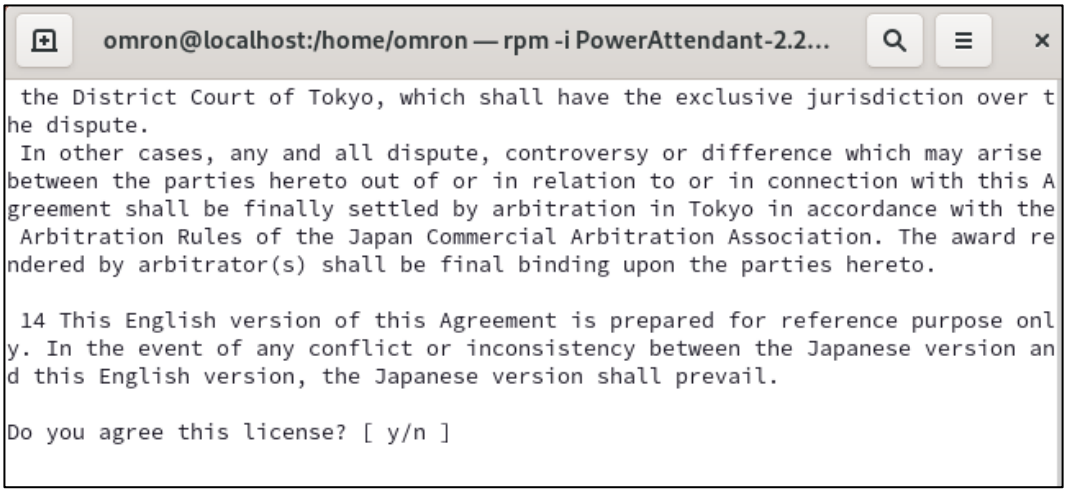
(3) Installation of the Software

1. Unzip the Software downloaded from the Company's website on the computer where it is installed.

2. Go to the unzipped directory and enter the following command on the terminal screen to install the software.

```
rpm -i PowerAttendant-2.3.0-1.x86_64.rpm
```

3. You will see a software license form, enter "y" if you agree and press enter. If you do not agree, enter "n" and finish the installation.



4. Enter the HTTP port number you want to use with the software and click the Next button.
In order for the screen of the Software to be displayed in the browser, you need to set the HTTP port number to be used.

```
omron@localhost:/home/omron — rpm -i PowerAttendant-2.2...
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
ndered by arbitrator(s) shall be final binding upon the parties hereto.

 14 This English version of this Agreement is prepared for reference purpose onl
y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]:
```

Please set a different HTTP port number within the range of 1 to 65535.

5. If you see the following indications, the installation is complete.

```
omron@localhost:/home/omron
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
ndered by arbitrator(s) shall be final binding upon the parties hereto.

 14 This English version of this Agreement is prepared for reference purpose onl
y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]: 80
Created symlink /etc/systemd/system/multi-user.target.wants/powerattendantd.serv
ice → /etc/systemd/system/powerattendantd.service.
Installation of PowerAttendant is finished.
[root@localhost omron]#
```

Close the terminal screen.

6. Log out and log back in to activate the settings.

This concludes the installation procedure for RHEL 9.X series.

2-1-4 Installation instructions on RHEL10.X series

※ RHEL10.X series includes AlmaLinux10.X, Rocky Linux10.X, and Oracle Linux10.X.

(1) Installing .NET 10.0

Please

・This software can only work when using ".NET 10.0".
It does not work properly with anything other than ".NET 10.0", so please be sure to use ".NET 10.0".

1. Enter the following command on the terminal screen to install .Net 10.0.

```
sudo dnf install aspnetcore-runtime-10.0 -y
```

(Here, dotnet-runtime-10.0 is also installed at the same time.)

This concludes "(1) Installing .Net 10.0".

Go to "(2) Install the desktop extension".

(2) Install the desktop extension

Please

・A GUI environment (GNOME3) is required to use this software.
Before installing this software, please install the GUI environment

1. Enter the following command on the terminal screen: Activate the EPEL repository.

```
sudo dnf install epel-release -y
```

If the above command gives you an error, run the following command:

```
sudo dnf install https://dl.fedoraproject.org/pub/epel/epel-release-latest-10.noarch.rpm -y
```

(This is one command above.) Please continue to enter line breaks without spaces.)

2. Activate the CRB repository. Depending on the type of OS, enter one of the following commands:

2-1 RHEL10. When installing on X

```
sudo dnf config-manager --set-enable codeready-builder-for-rhel-10-x86_64-rpms
```

(This is one command above.) Please continue to enter line breaks without spaces.

2-2 When installing on AlmaLinux 10.X, Rocky Linux 10.X

```
sudo dnf config-manager --set-enable crb
```

2-3 When Installing on Oracle Linux 10.X

```
sudo dnf config-manager --set-enable ol10_codeready_builder
```

3. Enter the following command on the terminal screen to install the desktop extension:

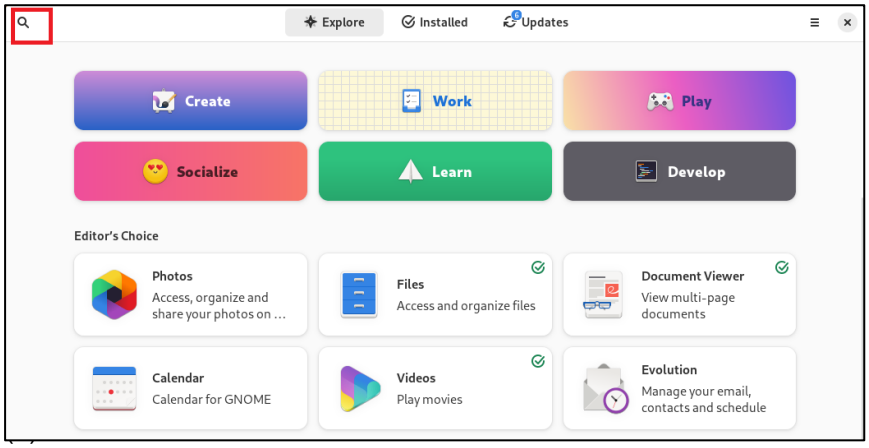
```
sudo dnf install gnome-shell-extension-appindicator -y
sudo dnf install xdg-utils -y
```

4. To activate the implementation so far, please log out and log back in.

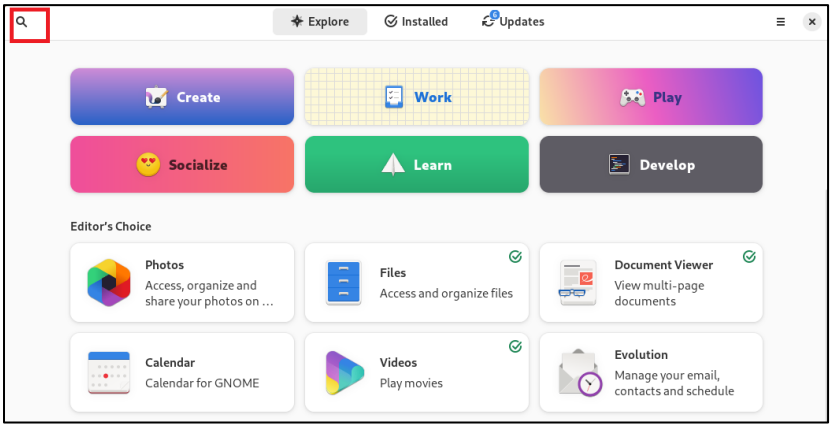
5. Set up your desktop extension.

(1) In the case of GNOME Standard

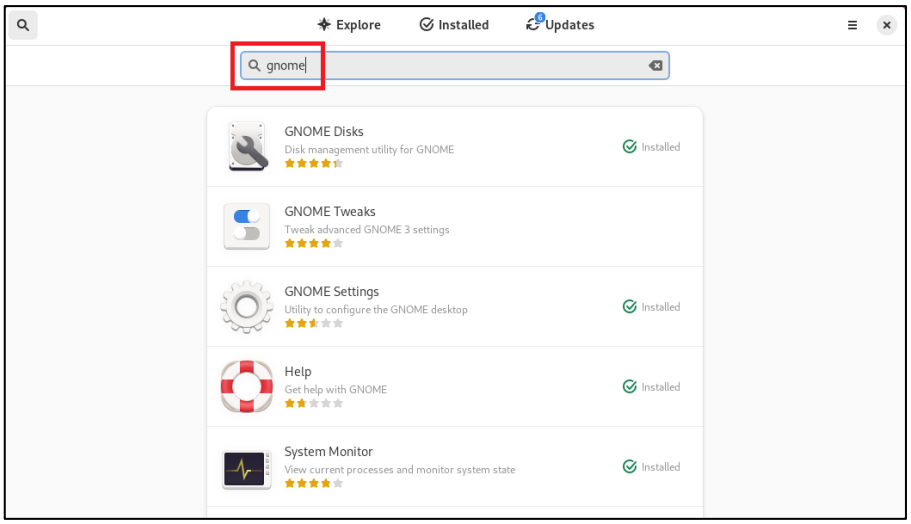
Open the Activity ⇒ software and click to bring up the search field.



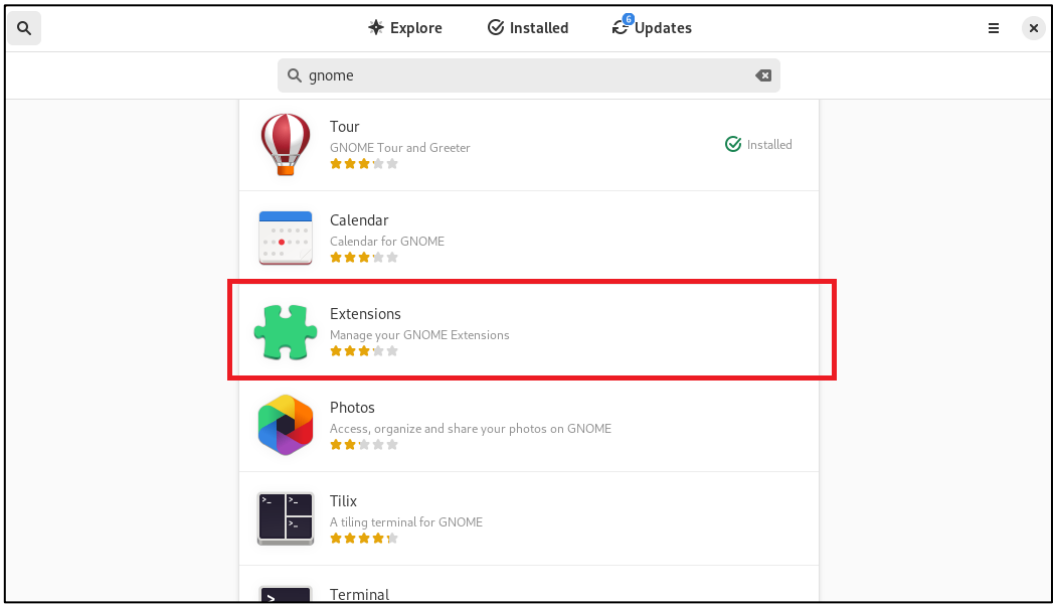
Open the application ⇒ System Tools ⇒ Software and click to display the search field.



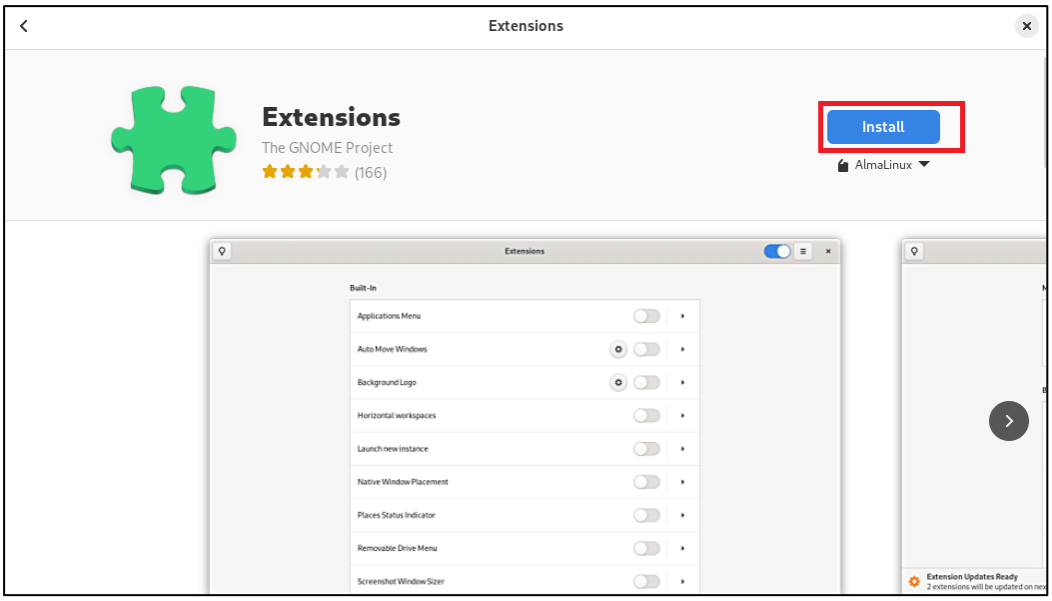
6. In the search field, type gnome.



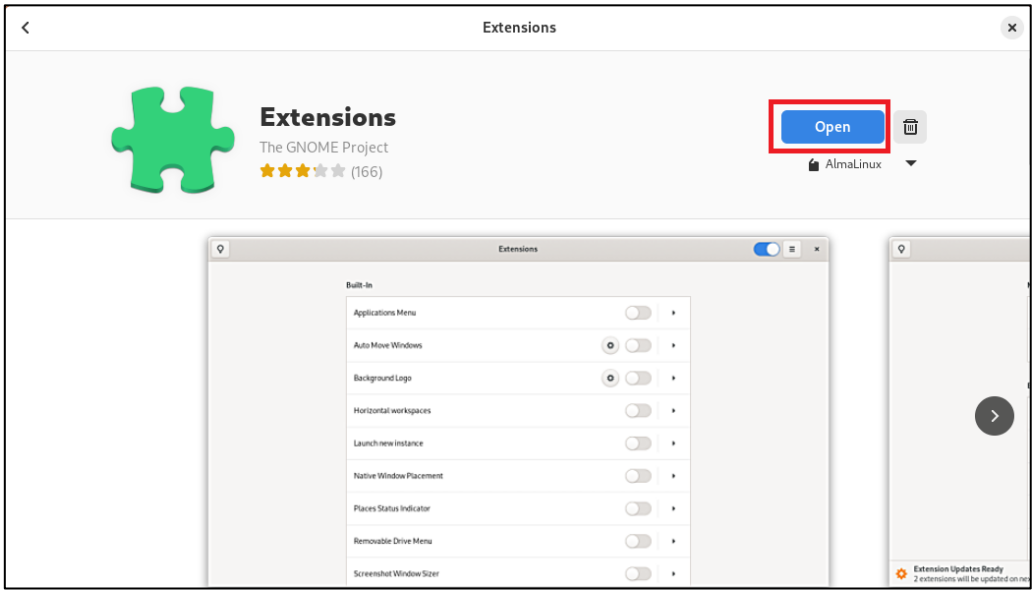
6. Select Extensions.



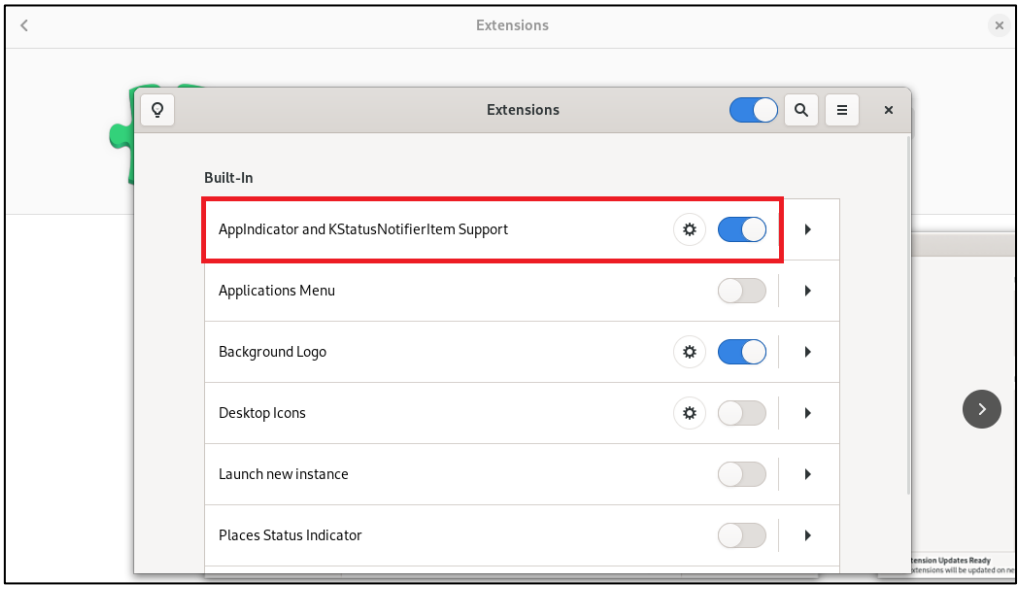
7. When the Extensions screen opens, click "Install (I)" to install the extension.



8. Click Open (O) after installation.



9. Enable the AppIndicator and KStatusNotifierItem Support settings.



This concludes "(2) Installing the desktop extension".

Go to "(3) Installing the Software".

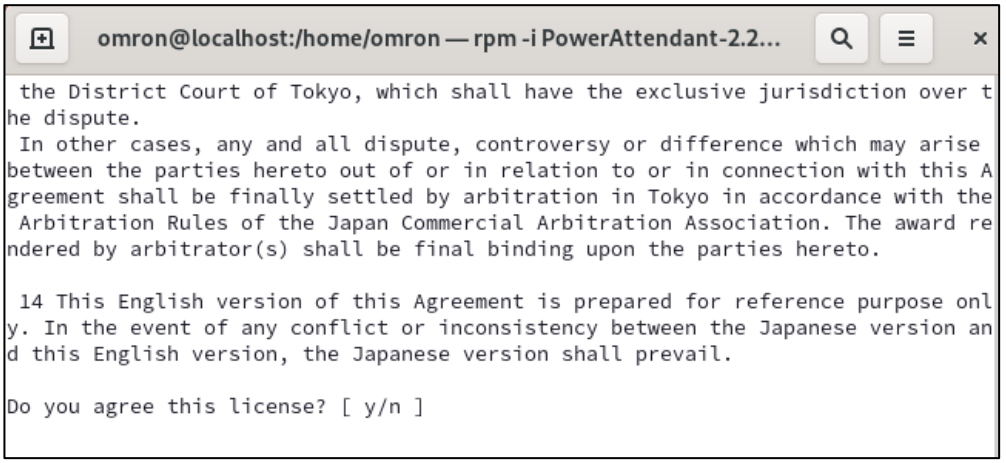
(3) Installation of the Software

1. Unzip the Software downloaded from the Company's website on the computer where it is installed.

2. Go to the unzipped directory and enter the following command on the terminal screen to install the software.

```
sudo rpm -i PowerAttendant-2.3.0-1.x86_64.rpm
```

3. You will see a software license form, enter "y" if you agree and press enter. If you do not agree, enter "n" and finish the installation.



4. Enter the HTTP port number you want to use with the software and click the Next button.
In order for the screen of the Software to be displayed in the browser, you need to set the HTTP port number to be used.

```
omron@localhost:/home/omron — rpm -i PowerAttendant-2.2...
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
ndered by arbitrator(s) shall be final binding upon the parties hereto.

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y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]:
```

Please set a different HTTP port number within the range of 1 to 65535.

5. If you see the following indications, the installation is complete.

```
omron@localhost:/home/omron
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
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y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]: 80
Created symlink /etc/systemd/system/multi-user.target.wants/powerattendantd.serv
ice → /etc/systemd/system/powerattendantd.service.
Installation of PowerAttendant is finished.
[root@localhost omron]#
```

Close the terminal screen.

6. Log out and log back in to activate the settings.

This concludes the installation procedure for RHEL10.X series.

2-1-5 Installation instructions in Ubuntu

(1) Installing .NET 10.0

Please

・This software can only work when using ".NET 10.0".
It does not work properly with anything other than ".NET 10.0", so please be sure to use ".NET 10.0".

When installing on Ubuntu 26.04 LTS or 24.04 LTS

Enter the following command on the terminal screen to install .Net 10.0.

```
sudo apt-get update && sudo apt-get install -y aspnetcore-runtime-10.0
```

When installing on Ubuntu 22.04 LTS

Enter the following command on the terminal screen to install .Net 10.0.

```
sudo add-apt-repository ppa:dotnet/backports

sudo apt-get update && sudo apt-get install -y aspnetcore-runtime-10.0
```

This concludes "(1) Installing .Net 10.0".

(2) Install the desktop extension

Ubuntu 26.04 LTS, 24.04 LTS and 22.04 LTS do not require the installation of desktop extensions.

Go to "(3) Installing the Software".

(3) Installation of the Software

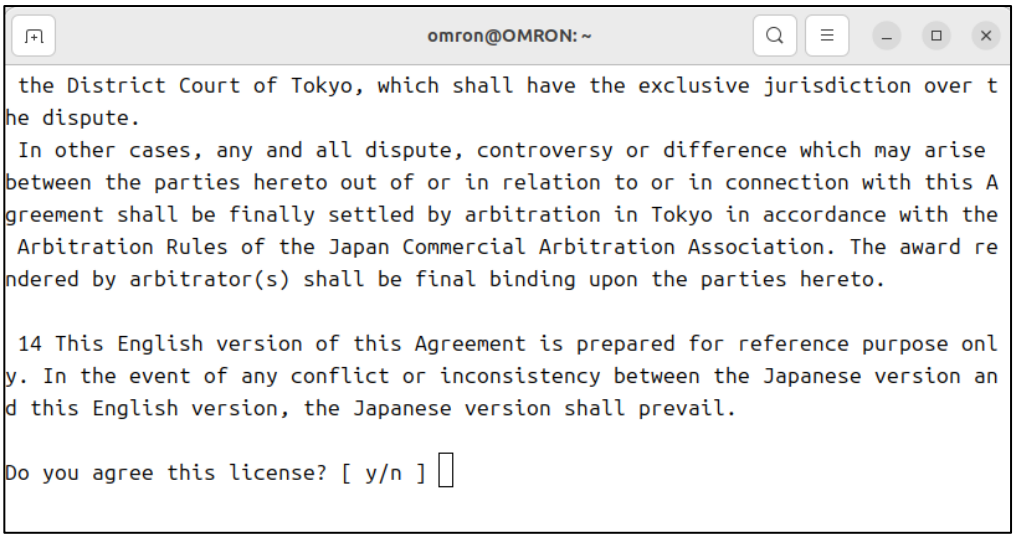
The same steps are followed for Ubuntu 26.04 LTS, 24.04 LTS, and 22.04 LTS.

1. Unzip the Software downloaded from the Company's website on the computer where it is installed.

2. Go to the unzipped directory and enter the following command on the terminal screen to install the software.

sudo dpkg -i PowerAttendant_2.3.0_amd64.deb

3. You will see a software license form, enter "y" if you agree and press enter. If you do not agree, enter "n" and finish the installation.



4. Enter the HTTP port number you want to use with the software and click the Next button.
In order for the screen of the Software to be displayed in the browser, you need to set the HTTP port number to be used.

```
omron@localhost:/home/omron
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
ndered by arbitrator(s) shall be final binding upon the parties hereto.

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y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]:
```

Please set a different HTTP port number within the range of 1 to 65535.

5. If you see the following indications, the installation is complete.

```
omron@localhost:/home/omron
 the District Court of Tokyo, which shall have the exclusive jurisdiction over t
he dispute.
 In other cases, any and all dispute, controversy or difference which may arise
between the parties hereto out of or in relation to or in connection with this A
greement shall be finally settled by arbitration in Tokyo in accordance with the
 Arbitration Rules of the Japan Commercial Arbitration Association. The award re
ndered by arbitrator(s) shall be final binding upon the parties hereto.

 14 This English version of this Agreement is prepared for reference purpose onl
y. In the event of any conflict or inconsistency between the Japanese version an
d this English version, the Japanese version shall prevail.

Do you agree this license? [ y/n ] y
Please input a http port number(1~65535) of this software[80]: 80
Created symlink /etc/systemd/system/multi-user.target.wants/powerattendantd.serv
ice → /etc/systemd/system/powerattendantd.service.
Installation of PowerAttendant is finished.
omron@OMRON:~$
```

6. Please log out and log back in to activate the settings.

This concludes the installation procedure for Ubuntu.

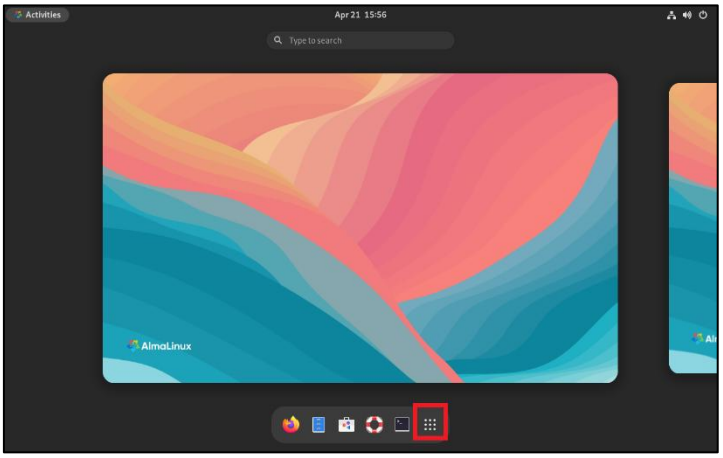
2-2 Launch the Software

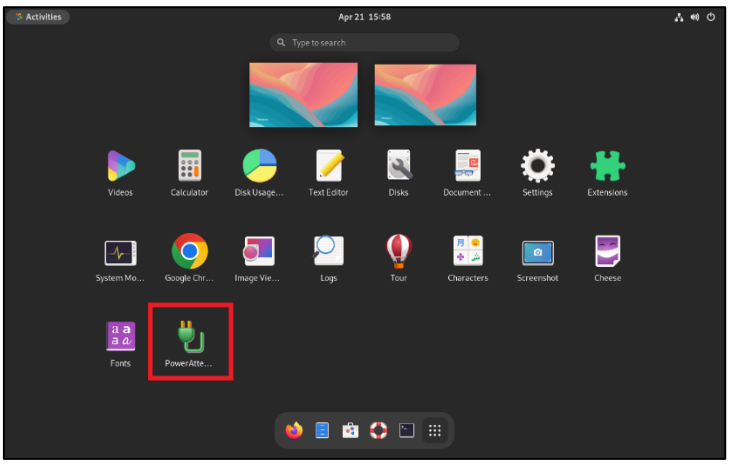
The way this software is launched depends on the type of GUI (GNOME3).

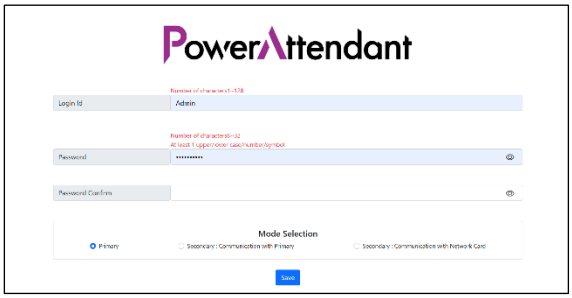
① For GNOME Standard

Click the PowerAttendant icon in the Application menu to launch the initial screen of the software.

Or launch the browser by specifying the HTTP port number you set during installation.



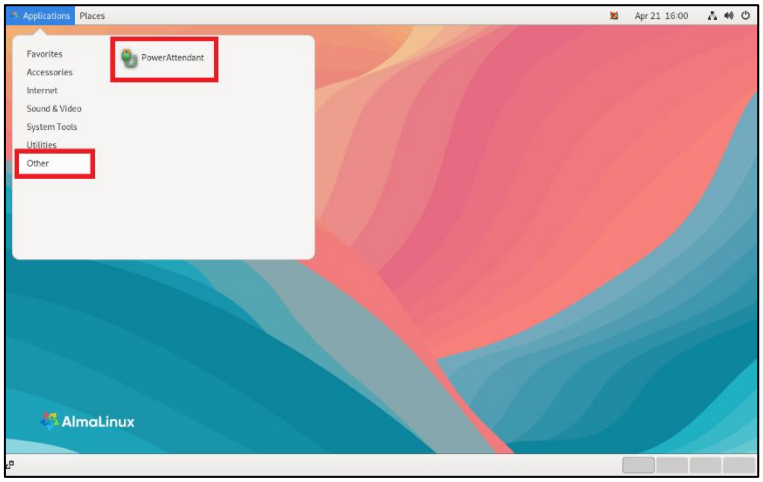


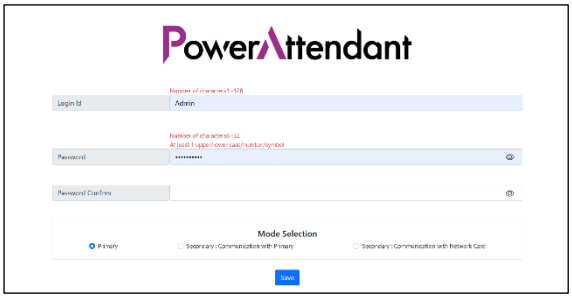


(2) For GNOME Classic

Click the PowerAttendant icon in the application ⇒ More to launch the initial screen of the software.

Or launch the browser by specifying the HTTP port number you set during installation.





2-3 Initial Startup Settings

When you start the software for the first time, you need to set a login ID and password to use with the software.
The following screen will be displayed only when you start the computer for the first time, so please set your login ID and password.

Please

- This screen sets the login ID and password.
  To log in to the Software, the top screen of the Software is displayed, and then log in using the login ID and password set here.
- Login ID and password can be changed later, but you need to log in to change them. For this reason, please do not forget the login ID and password information you set when you first start the startup.

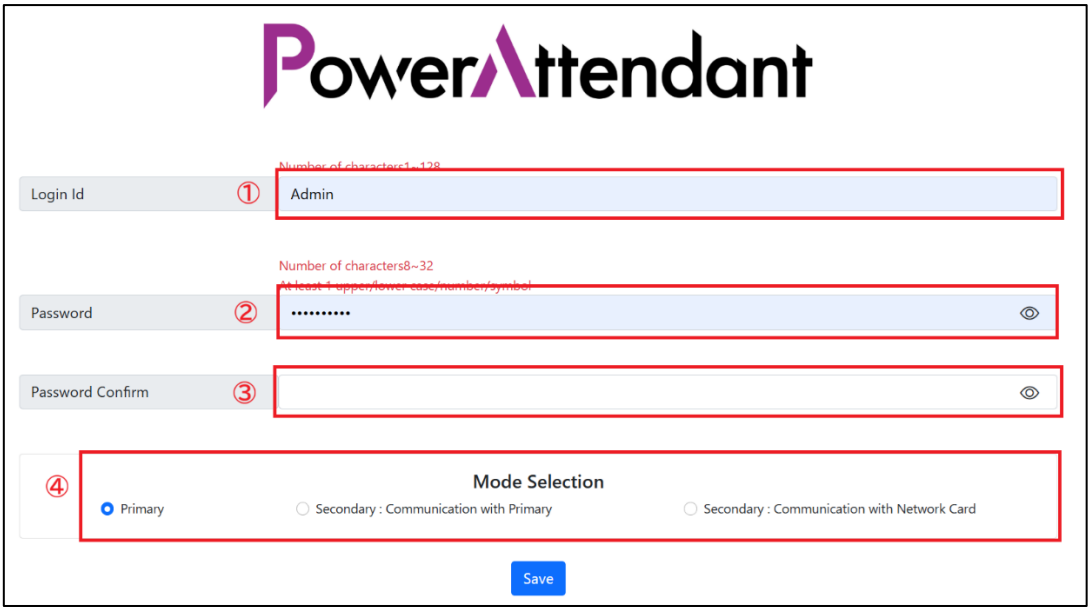


Figure number	Item Name	Contents
①	Login Id	Please set it to at least 1 character and no more than 128 characters. There is no initial value.
②	Password	Please set it to 8 to 32 characters. There is no initial value. Please be sure to use at least one uppercase letter, lowercase letter, number, or symbol.
③	Password Confirm	Please enter the same password again.
④	Mode Selection	Select the mode on first startup. For more information about each mode, see 「8. Automatically shutdown multiple computers (Cooperation Shutdown)」(page 69) “ Secondary : Communication with Network card” is not used in S8BA

After a while by clicking the "Save" button, the login screen of the Software will appear.

3. Screen and Controls

3-1 Screen configuration of the software

3-1-1 Top screen

The screen of this software is configured as follows.
When you start up, you will see the following top screen:

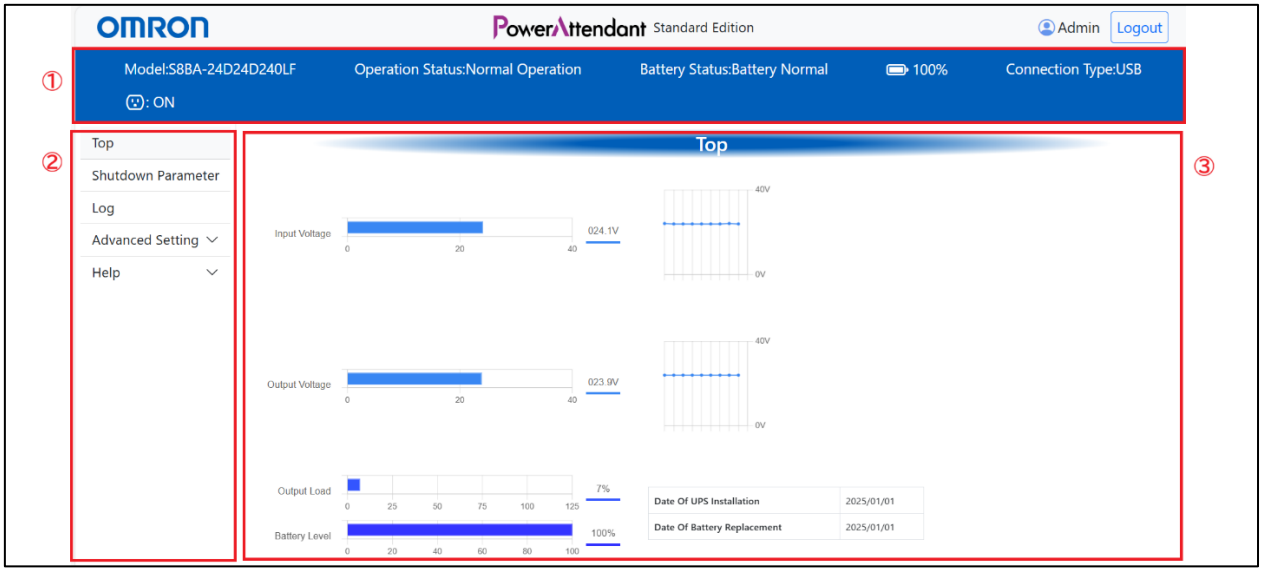


Figure number	Item Name	Contents
①	Fixed Viewing Area	Information about UPS status and more is displayed. This area is always visible even if you select a menu and switch between the main display areas.
②	Menu area	A menu is displayed for setting and operating.
③	Display and operation area	Information about the selected items on the menu is displayed.

3-1-2 Menu

This is a list of menus of this software.

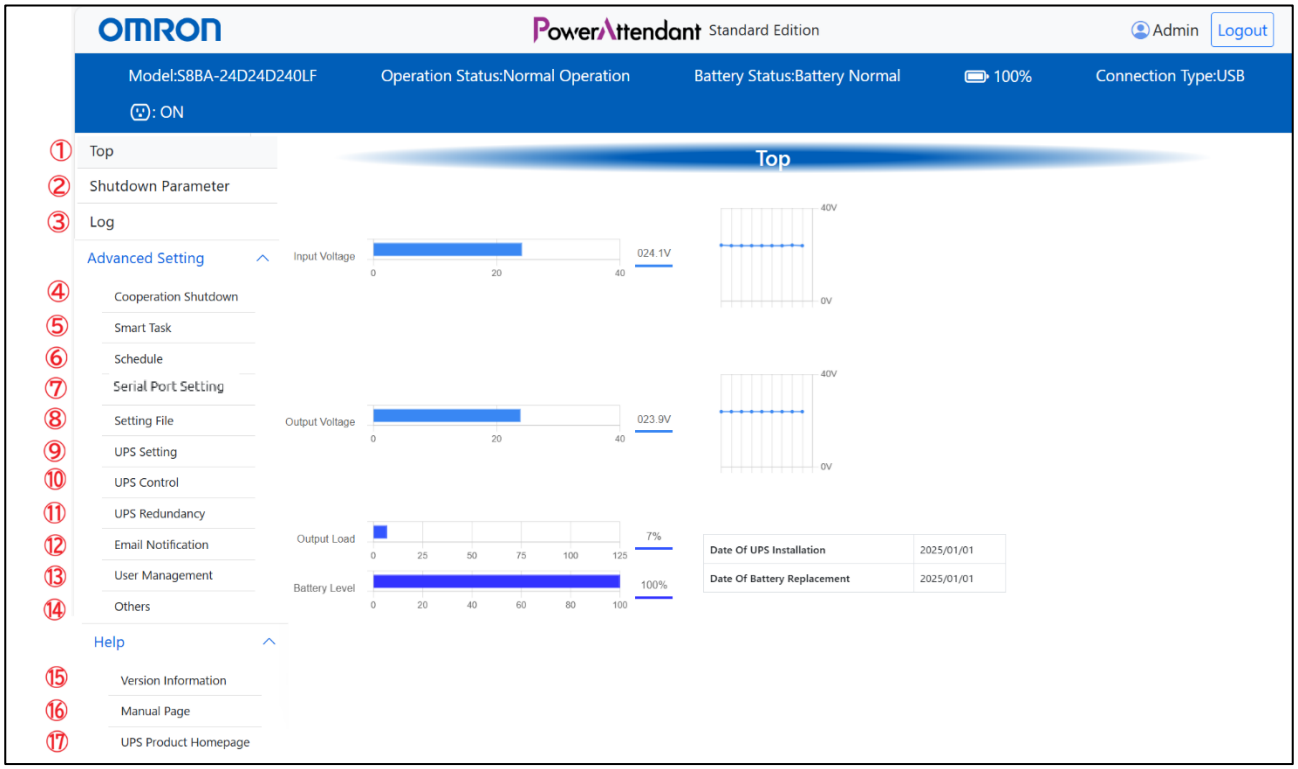


Figure number	Item Name	Contents	References
①	Top	Displays the status of your UPS and more.	page 53
②	Shutdown Parameter	Set the settings for automatic shutdown in the event of an input power failure.	page 54
③	Log	View log information.	page 61
④	Cooperation Shutdown	Set up automatic shutdown of multiple computers connected to the network.	page 69
⑤	Smart Task	Configure the software to automatically connect to other computers and other devices via the network to execute scripts.	page 73
⑥	Schedule	Configure the computer to automatically shut down according to the present schedule.	page 82
⑦	Serial Port Setting	Configure the settings for connecting the UPS and the computer with the RS-232C.	page 97
⑧	Setting File	The configuration information of the Software is stored and loaded into a file.	page 106
⑨	UPS Setting	Configure the items to be set on the UPS console.	page 98
⑩	UPS Control	Perform operations to control UPS.	page 100
⑪	UPS Redundancy	Configure the settings when creating redundant configurations with multiple UPS. *This function is not available on S8BA.	page 88

Figure number	Item Name	Contents	References
⑫	Email Notification	Set up email notifications when an event occurs.	page 89
⑬	User Management	Change the user ID and password.	page 101
⑭	Others	Send commands directly to UPS to change port number, pop-up display settings, etc.	page 103
⑮	Version Information	Displays information about the Software and the connected UPS.	page 107
⑯	Manual Page	This is a link to the manuals for this software.	—
⑰	UPS Product Homepage	This is a link to the homepage of our UPS products.	—

3-2 Taskbar icons

After installing the software by following the instructions, an icon will appear on the taskbar.

If you are using it as a primary

Icon display	Display content	Description
	Normal during commercial operation	UPS is running normally.
	Service outage	The software has stopped working.
	During backup operation	The UPS is running as a backup (battery output) due to an input power failure.
	Communication errors	There is a communication error between UPS and the Software.
	Hardware anomalies	UPS, there is a problem with the battery. Check the event log to see what issues you're experiencing. The anomalies that can be detected vary depending on the UPS model. For details, refer to the UPS instruction manual.

If you are using it as a secondary

Icon display	Display content	Description
	Normal communication	You are able to communicate normally with the Software running on the Primary Software.
	Communication errors	There is a communication error with the Software running on the Primary Computer.

*When you click on the icon, the menu [Show] and [Hide] will appear.
If the pop-up screen that appears during backup operation is hidden and you can't see it, select [Show]
It will appear at the forefront.

3-3 Login and Logout

If you want to use the Software, you must log in to the Software with the login ID and password you set when you first start it. If you fail to log in 3 times in a row due to an incorrect login ID or password, you will be automatically locked for 2 minutes (you cannot log in for 2 minutes). While locked, you will not be able to log in even if you enter the correct login ID and password, so please wait for the unlock to be unlocked.

3-3-1 Log in

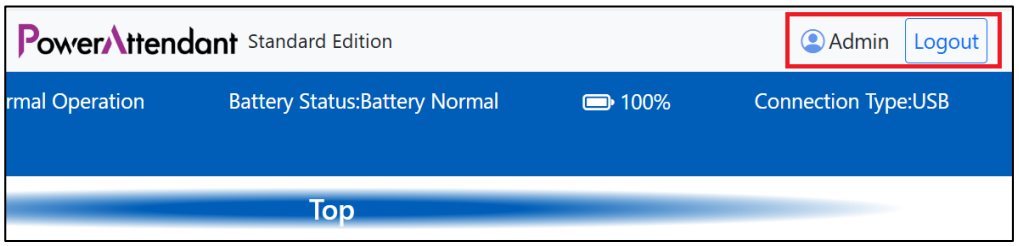
When the Software is launched

1. Click the PowerAttendant icon to launch the initial screen of the software.

「2-2Launch the Software」（page 43）

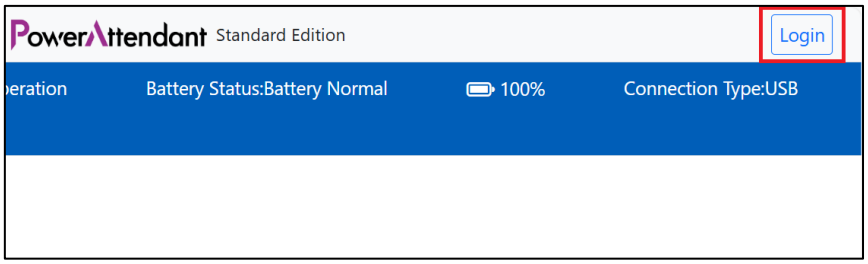
2. The following screen will appear, enter the login Id and password you have set, and click the "Login" button.

Once logged in, you will see your login ID and the Logout button in the upper right corner of the screen.



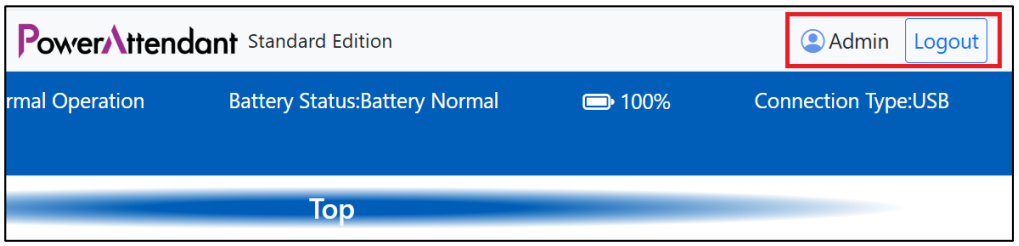
When the Software is running

1. Click the Login button in the top right corner of the screen.



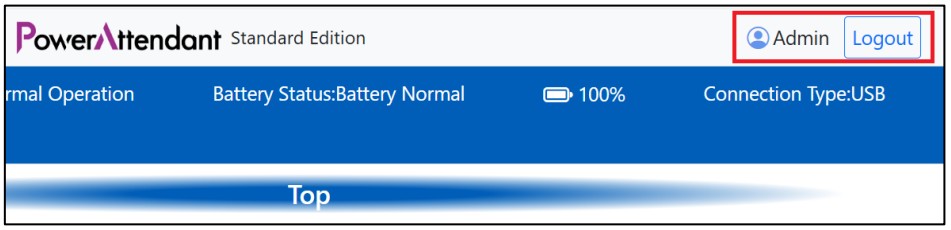
2. The following screen will appear, enter the login Id and password you have set, and click the "Login" button.

Once logged in, you will see your login ID and the Logout button in the upper right corner of the screen.

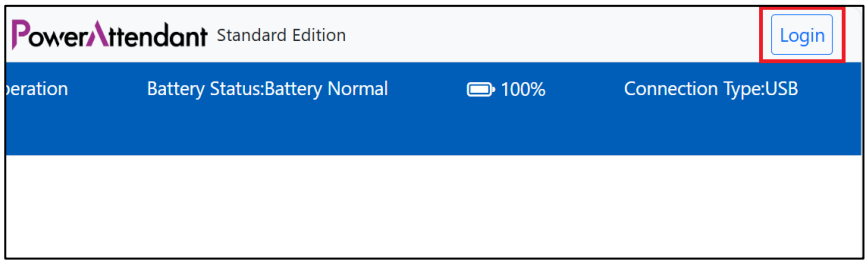


3-3-2 Log out

1. Click the "Logout" button in the upper right corner of the screen to log out.



Once you log out, you will see the Login button in the top right corner of the screen.



Note

You can change the login ID and password you set at the time of the first boot.
For more information on how to change it, see 「16. Change login ID and password」(page 101)

4. Check UPS Status

On the top screen, you can check the status of the connected UPS.

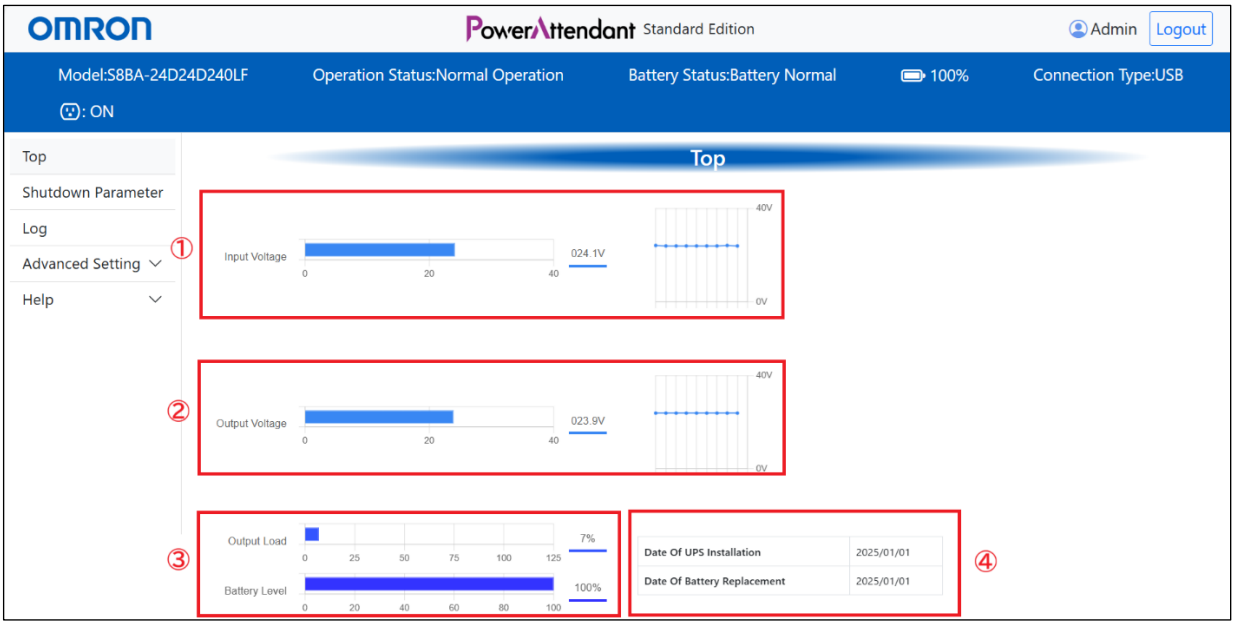


Figure number	Item Name	Description
①	Input Voltage	Displays the input voltage of the connected UPS in graphs and numbers.
②	Output Voltage	Displays the output voltage of the connected UPS in graphs and numbers.
③	Output Load Battery Level	Displays the connection capacity and battery capacity of the connected UPS in graphs and numbers.
④	Date Of UPS Installation Date Of Battery Replacement	Displays the connected UPS start date and battery replacement date. If the model can be set to the UPS itself, the date set to the UPS will be displayed. If the model cannot be set to UPS, the date stored in the software will be displayed. You can change the date in "UPS Settings" - "Basic Settings" in this software.

5. Set the automatic shutdown function (Shutdown Parameter)

Set the shutdown operation when an input power failure (such as a power outage) occurs.

5-1 Basic Setup

The time and operation are set for each process from the occurrence of an input power failure (power outage, etc.) to the completion of automatic shutdown.

5-1-1 Settings screen

The time you enter will be reflected in the graph on the screen. While checking the graph, set the power output from the UPS to continue until the shutdown is completed (the graph for "Outlet" is longer than for "OS Processing").

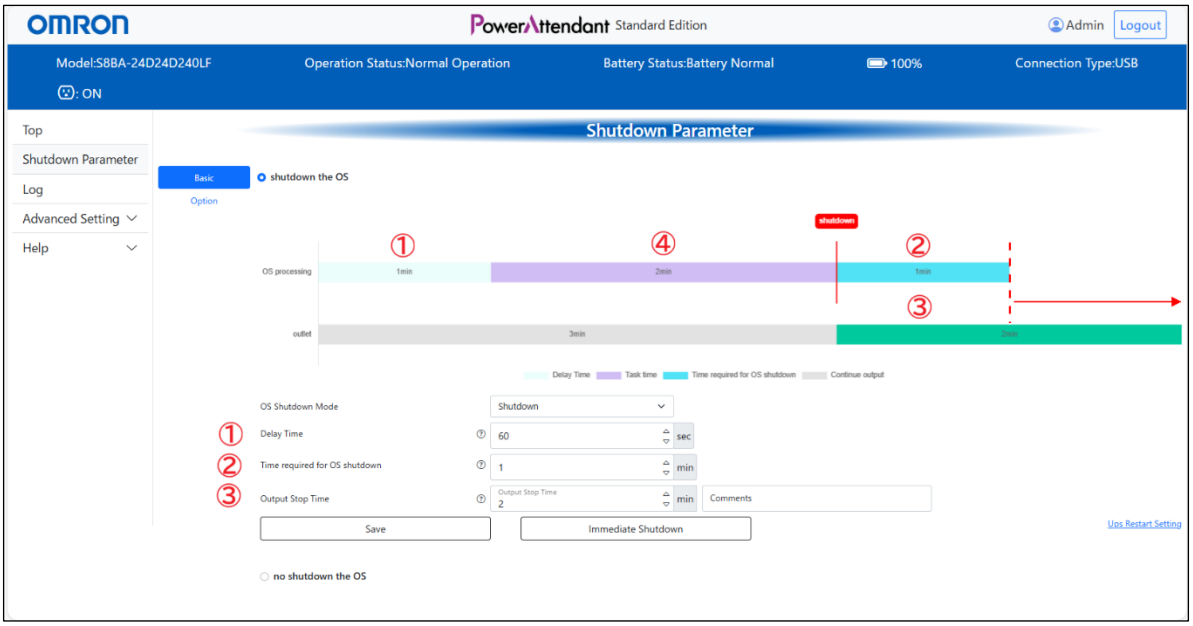
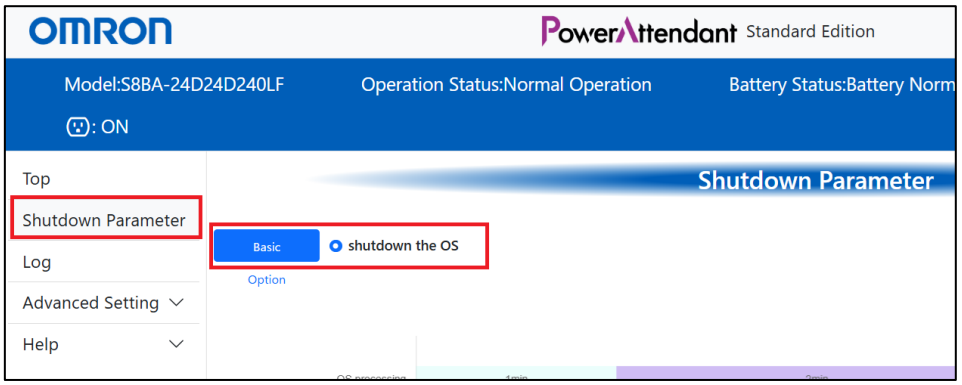


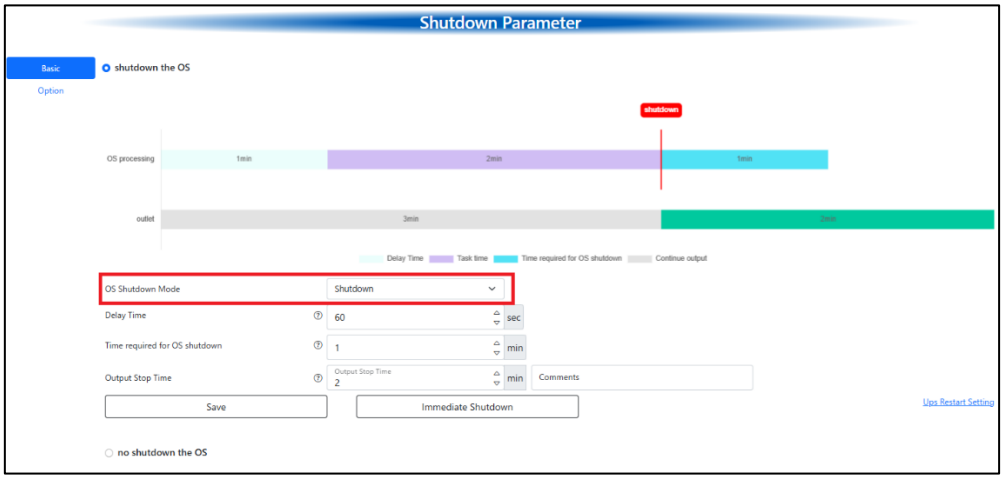
Figure number	Item Name	Description
①	Delay Time	The time it takes for the software to detect an input power failure and start shutting down.
②	Time required for OS shutdown	It is the time required from the start of the OS shutdown to the time it is reliably completed.
③	Output Stop Time	This is the time after the shutdown starts before the output from the UPS stops.
④	Task time	If you have set up a smart task, it will show you how long it takes to process it. For more information, 「9. Run scripts under set conditions (Smart Task)」（page 73).

5-1-2 Make basic settings

1. In the menu "Shutdown Parameter", click "Basic" - "shutdown the OS".



2. Sets the OS shutdown state in the event of an input power failure (e.g., power outage).
Under OS Shutdown Mode, select Shutdown or Hibernate.



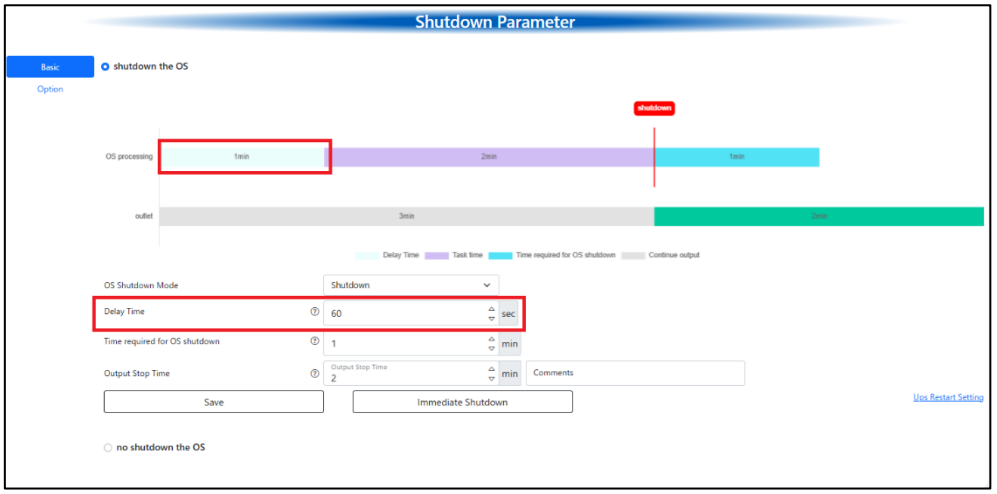
This item appears only if your computer supports Hibernation.

Note

If you select "Hibernate", the OS function will save the desktop state to the hard disk and exit.
When restarting, the desktop will return to the pre-hibernation desktop state.
We recommend that you select Hibernate if:

- If you have data that you want to save when the OS is terminated.
- If you want to terminate the OS in the shortest possible time

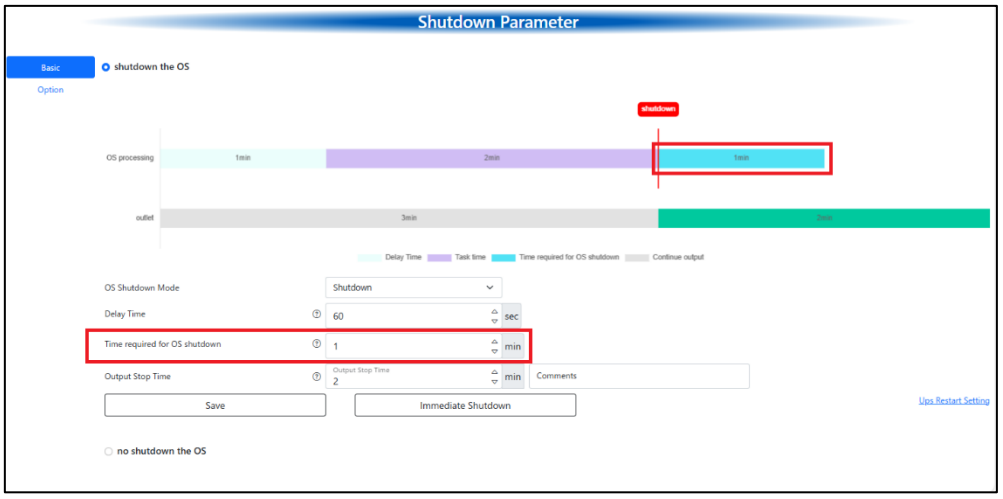
3. After detecting an input power failure, set the delay time before starting a shutdown.



Note

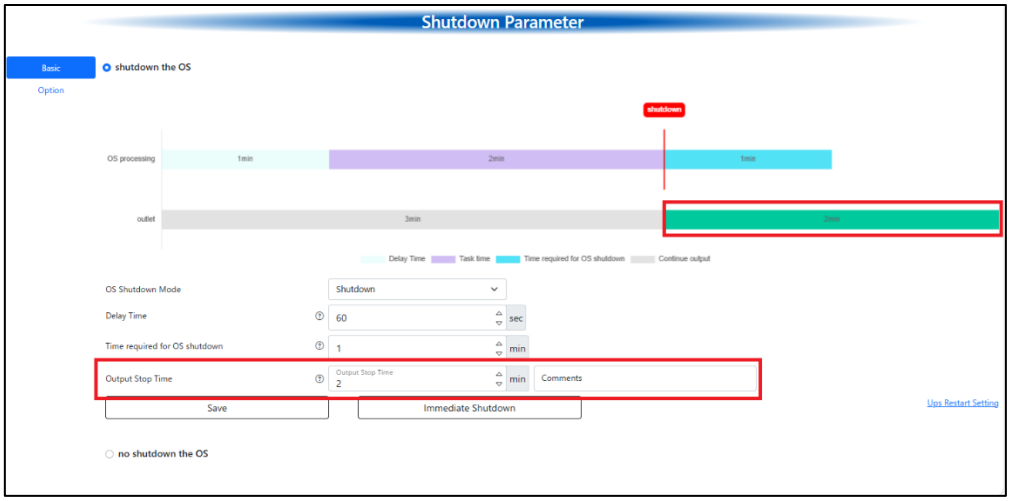
"Standby time" is the time when an input power failure (such as a power outage) occurs and does not immediately start shutting down but waits for power to be restored. If the power is restored within this time, the shutdown will not be performed.

4. Set the required time from starting the OS shutdown to finishing.
We recommend that you actually measure the time it takes to shut down the computer using the software and set that time.



5. Set the time before stopping output from the UPS.

For UPS that does not have an output outlet control function
After the shutdown starts, it sets the time before the output stops.
Set the total time for "outlet" to be longer than the total time for "OS processing" displayed in the graph.

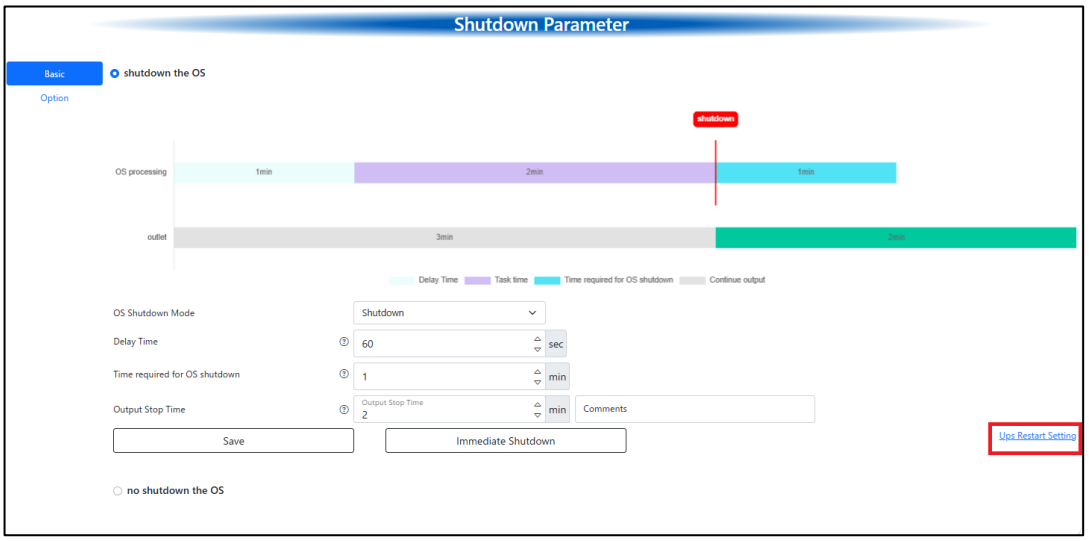


You can enter any string in the Notes field. It is useful to enter the name of the device connected to the output outlet.

6. Click the Save button to save the settings.

Note

- When you click [Output Start Setting], the [UPS Setting] - [Output Start Setting] screen is displayed, and you can set the UPS output start delay time when the power is restored.
  For more information,「14-2 Output Start Setting」（page 99).



If you want to return to the Shutdown Parameter screen, select Shutdown Parameter from the menu.

- When an input power failure (such as a power outage) occurs, if you want to maintain the output from the UPS without performing an automatic shutdown, click Basic --Do not shut down the OS.

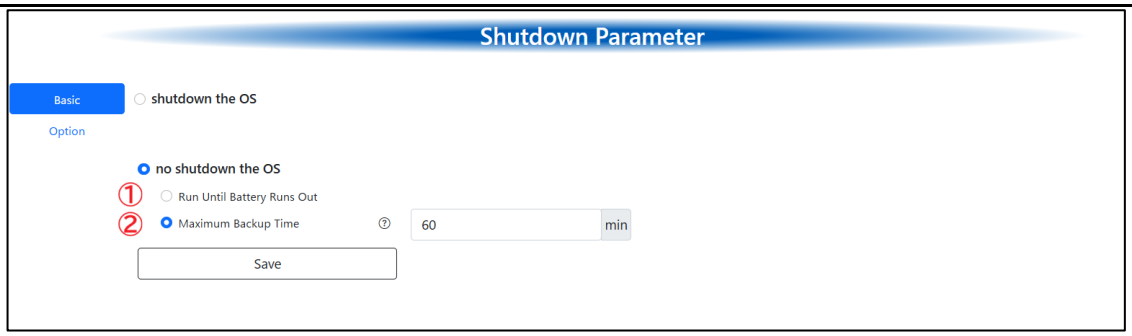


Figure number	Item Name	Description
①	Run until Battery Runs Out	The UPS will continue to output until the battery runs out.
②	Maximum Backup Time	The UPS will stop outputting after the set time has elapsed.

When you are finished, click the "Save" button to save the settings.

5-2 Options

Set the shutdown operation when the UPS battery level is low during an input power failure, or when a UPS itself needs to shut down urgently, such as when the UPS itself fails.

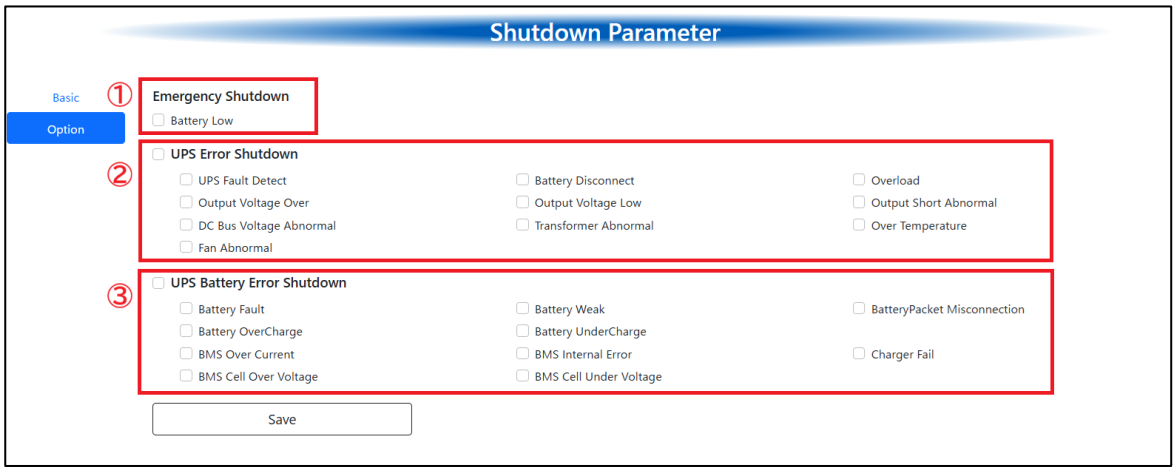


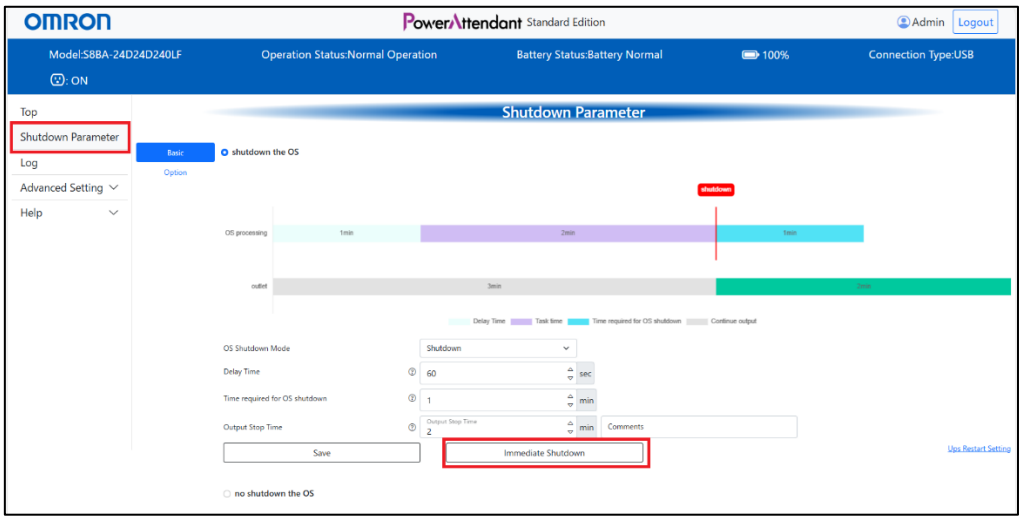
Figure number	Item Name	Description
①	Emergency Shutdown	When the UPS has a low battery level (Battery Low), it immediately starts shutting down. Shutdown works according to the settings of the Shutdown Parameter, but ignores the wait time and task time. However, if the battery is already low while running a task, the task will run to the end. The default value is OFF.
②	UPS Error Shutdown	If there is an abnormality in the UPS body, it will start shutting down. You can select the type of anomaly that triggers the shutdown behavior from the following events: ・UPS Fault Detect ・Battery Disconnection ・Over load ・Output Voltage Over ・Over Voltage Low ・Output Short Abnormal ・DC Bus Voltage Abnormal ・Transformer Abnormal ・Over Temperature ・Fan Abnormal The above settings are displayed in common to all UPS. However, some items are not supported by some UPS models. In that case, the item will not be in an abnormal state as UPS, so it will not perform a shutdown operation even if the setting is ON. The initial values are all OFF.
③	UPS Battery Error Shutdown	If the battery of the UPS itself encounters an abnormality, it will start shutting down. You can select the type of anomaly that triggers the shutdown behavior from the following events: ・Battery Fault ・Battery Weak ・BatteryPacket Misconnection ・Battery Overcharge ・Battery Undercharge ・BMS Over Current ・BMS Internal Error ・Charger Fail ・BMS Cell Over Voltage ・BMS Cell Under Voltage The above settings are displayed in common to all UPS. However, some items are not supported by some UPS models. In that case, the item will not be in an abnormal state as UPS, so it will not perform a shutdown operation even if the setting is ON. The initial values are all OFF.

When you are finished, click the "Save" button to save the settings.

6. Perform a Behavioral Test

Verify that the automatic shutdown feature works as configured.

1. In the menu "Shutdown Parameter", click the "Basic" - "Immediate shutdown" button.



2. Set the wait time before initiating an immediate shutdown.
The default value is the waiting time set in the "Shutdown Parameter". You can change the Delay Time for an immediate shutdown.

Changing the Delay Time for an immediate shutdown does not override the Shutdown Parameter settings.

3. Click the Yes button to perform OS and UPS shutdown.

If you stop the UPS with Immediate Shutdown, the UPS will not start automatically. To restart the UPS, turn on the power switch on the UPS itself.

Please

- Please note that even if the power is restored after the waiting time has elapsed, the UPS will stop regardless of the condition of the connected device. If the UPS input power is restored before the time required for OS shutdown and time to output stop, the UPS will return from battery mode to commercial mode, but the UPS will always restart. Therefore, if you manually turn on the computer before the UPS stops, the power to the computer will be cut off at the timing of the UPS shutdown mentioned above. After confirming the OS shutdown, make sure that the UPS stops, then restore the power supply, and then start the computer.

7. Check the logs

Records events that occur on the UPS or the Software and the status of the UPS power supply.
There are 5 menus for logs: Event Log, Operation History Log, Task History Log, Data Log, and Extended Battery Log.

If you encounter a problem such as the shutdown function not working, please check the log records of this function to help identify the cause of the problem.

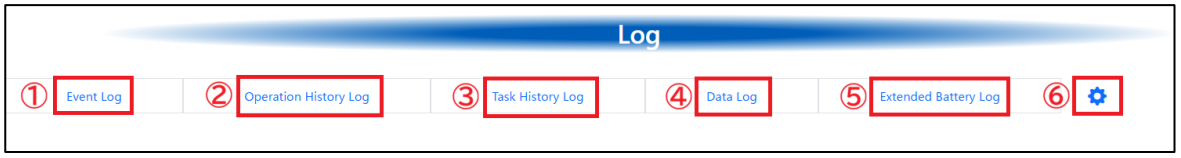


Figure number	Item Name	Description
①	Event Log	Records events that occur in the Software and UPS.
②	Operation History Log	Records the user's interaction with the software.
③	Task History Log	Records the results of the execution of tasks set by the Smart Task feature.
④	Data Log	Record the status of UPS.
⑤	Extended Battery Log	If an extended battery is connected to the BV100REX, record the status of the extended battery.
⑥		Click to open the log settings screen.

⑤ is not used in S8BA.

Please

The hardware abnormalities of the UPS itself displayed in the event log are detected differently for each model.
For more information about hardware anomalies, refer to the UPS console owner's manual.

7-1 Recorded logs

7-1-1 Event Log

Records events that occur with UPS and the Software.

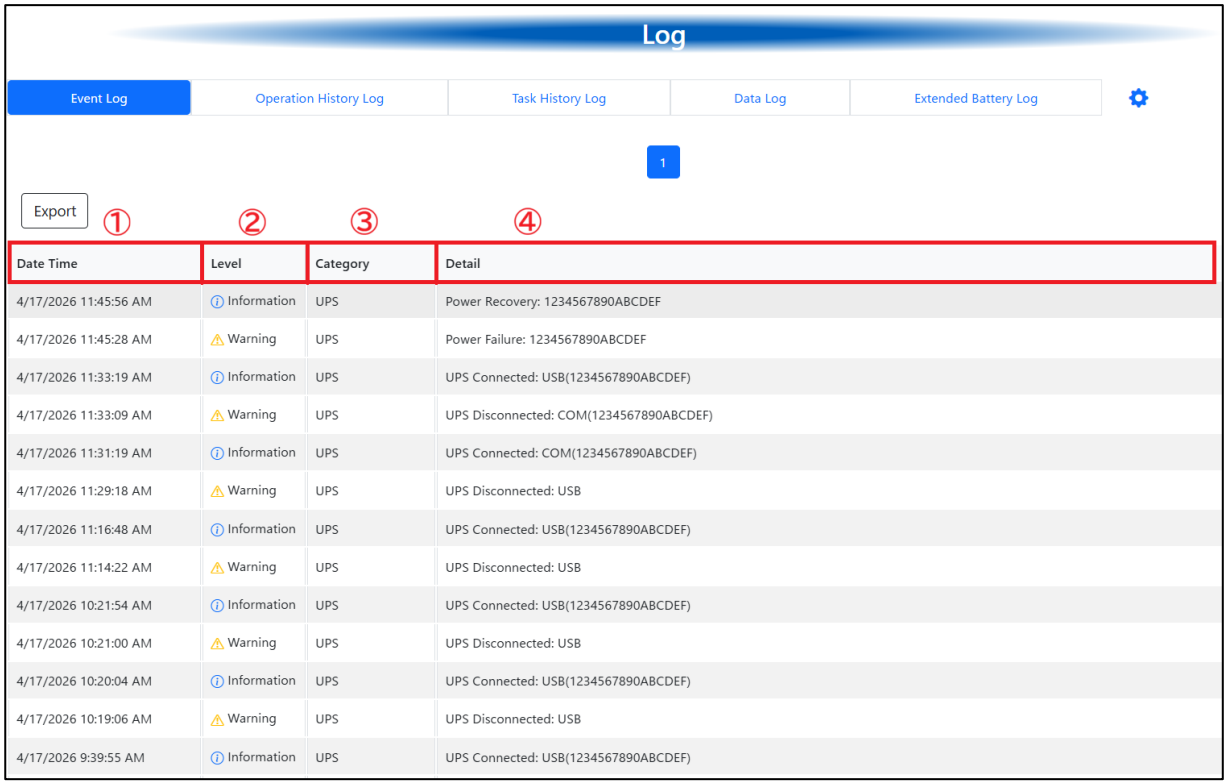


Figure number	Item Name	Description
①	Date Time	The date and time when the event occurred.
②	Level	Level of events. There are 3 types: "warning", "information", and "error".
③	Category	「UPS」 ⇒ Events related to UPS. 「PowerAttendant」 ⇒ Events related to the Software. 「Cooperation Shutdown」 ⇒ Events related to Cooperation Shutdown. 「Serial Port Setting」 ⇒ Events related to Serial Port Setting. 「Schedule」 ⇒ Events related to the Schedule. 「Email Notification」 ⇒ Events related to Email Notification.
④	Detail	The content of the event that occurred.

7-1-2 Operation History Log

Records the user's interaction with the software.

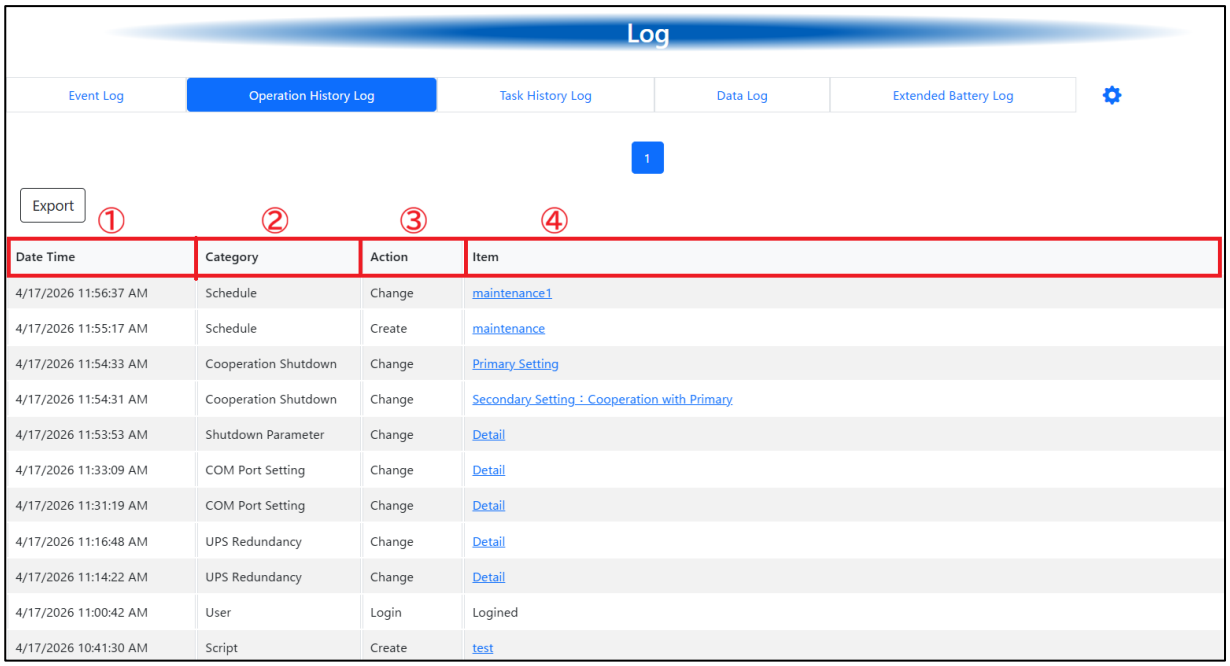
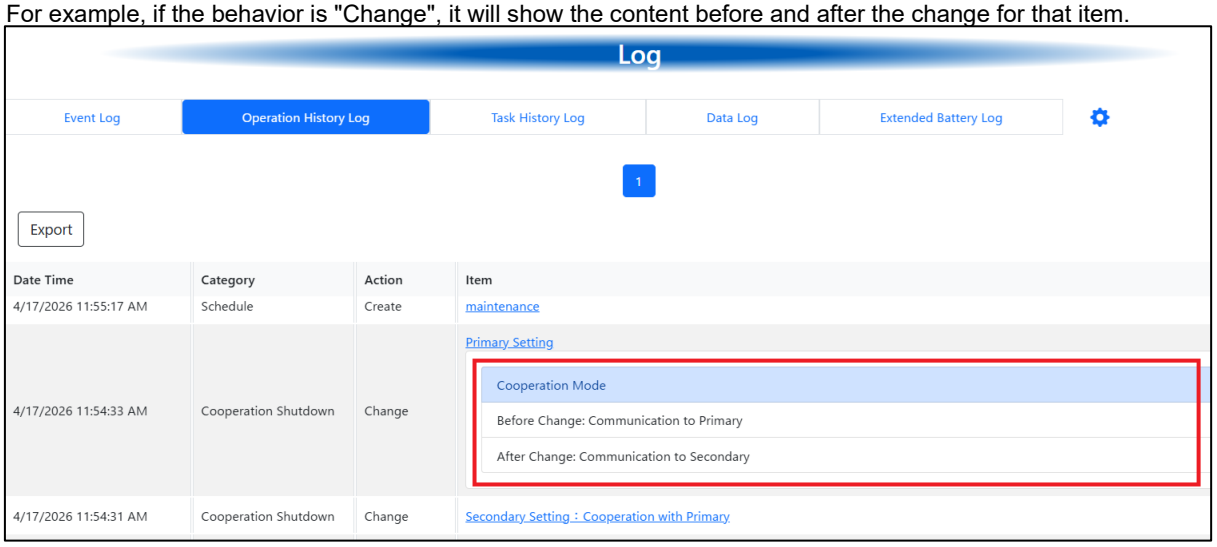


Figure number	Item Name	Description
①	Date Time	The date and time the user interacted with.
②	Category	The type of menu that the user interacted with.
③	Action	User-operated behavior. There are 4 types: "Create", "Change", and "Delete", “Login”.
④	Item	Items that were interacted with by the user.

Click on an item to see more detailed information.
For example, if the behavior is "Change", it will show the content before and after the change for that item.



7-1-3 Task History Log

Records the results of the execution of tasks set by the Smart Tasks feature.

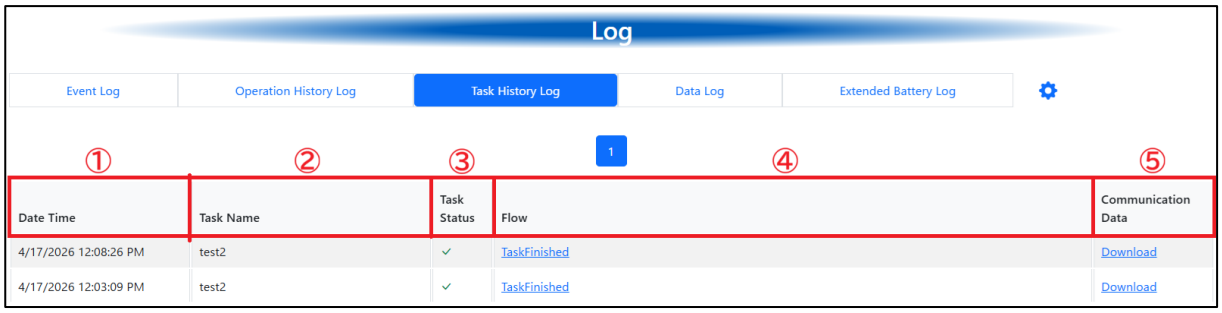
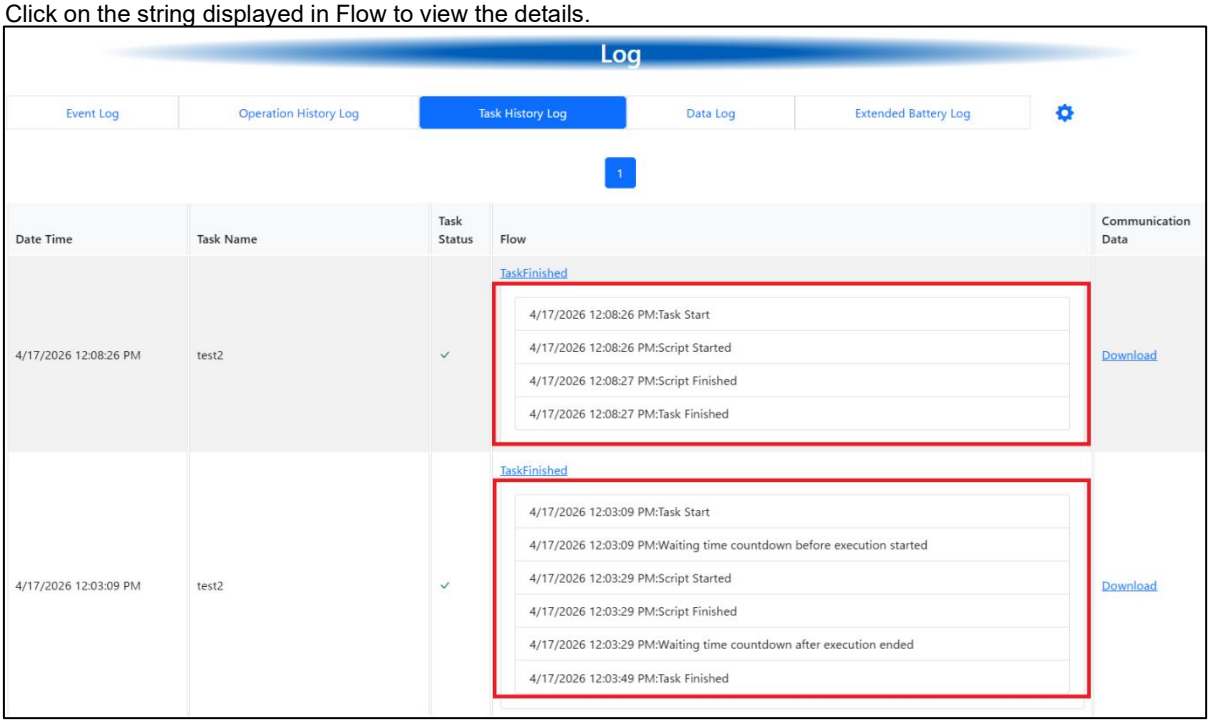


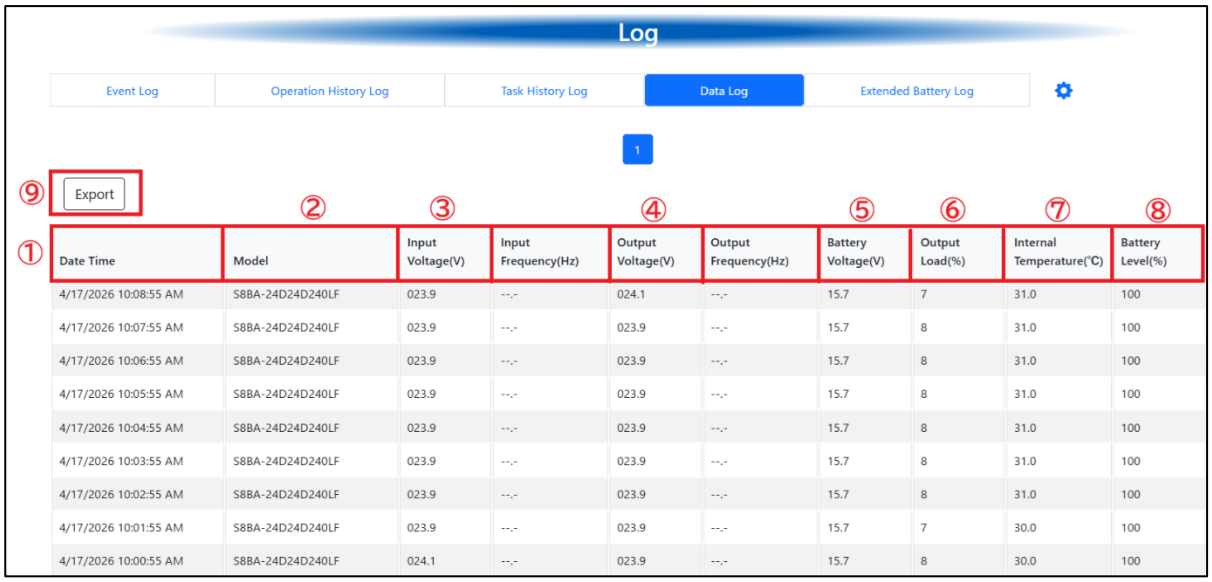
Figure number	Item Name	Description
①	Date Time	The date and time when the task was executed.
②	Task Name	Name of the task.
③	Task Status	Displays the execution status of the task with icons. There are 3 types: "success", "failure", and "timeout".
④	Flow	View task execution in chronological order.
⑤	Communication Data	When the task is complete, "Download" is displayed. Click "Download" to download the actual results as a file.

Click on the string displayed in Flow to view the details.



7-1-4 Data Log

Record the status of UPS.



Date Time	Model	Input Voltage(V)	Input Frequency(Hz)	Output Voltage(V)	Output Frequency(Hz)	Battery Voltage(V)	Output Load(%)	Internal Temperature(℃)	Battery Level(%)
4/17/2026 10:08:55 AM	S8BA-24D24D240LF	023.9	--.-	024.1	--.-	15.7	7	31.0	100
4/17/2026 10:07:55 AM	S8BA-24D24D240LF	023.9	--.-	023.9	--.-	15.7	8	31.0	100
4/17/2026 10:06:55 AM	S8BA-24D24D240LF	023.9	--.-	023.9	--.-	15.7	8	31.0	100
4/17/2026 10:05:55 AM	S8BA-24D24D240LF	023.9	--.-	023.9	--.-	15.7	8	31.0	100
4/17/2026 10:04:55 AM	S8BA-24D24D240LF	023.9	--.-	023.9	--.-	15.7	8	31.0	100
4/17/2026 10:03:55 AM	S8BA-24D24D240LF	023.9	--.-	023.9	--.-	15.7	8	31.0	100
4/17/2026 10:02:55 AM	S8BA-24D24D240LF	023.9	--.-	023.9	--.-	15.7	8	31.0	100
4/17/2026 10:01:55 AM	S8BA-24D24D240LF	023.9	--.-	023.9	--.-	15.7	7	30.0	100
4/17/2026 10:00:55 AM	S8BA-24D24D240LF	024.1	--.-	023.9	--.-	15.7	8	30.0	100

Figure number	Item Name	Description
①	Date Time	The date and time when you got the UPS status.
②	Model	UPS model.
③	Input Voltage (V)	Input voltage.
④	Output Voltage (V)	output voltage.
⑤	Battery Voltage (V)	Battery voltage.
⑥	Output load (%)	The capacity of the load connected to the UPS.
⑦	Internal Temperature (°C)	UPS internal temperature.
⑧	Battery Level (%)	Battery capacity.
⑨	Export	Click to output the data log externally as a file in CSV format.

Data logs are logged only when used by the primary.

7-1-5 Extended Battery Log

*This function is not available on S8BA.

7-2 Configure Logs

Configure the settings for each log.

Click on the icon to see the following screen.

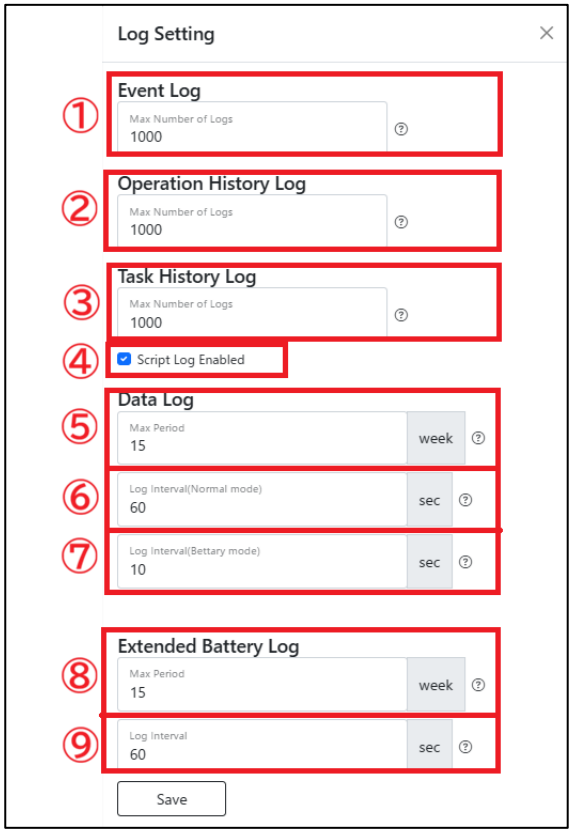


Figure number	Item Name	Description
①	Event Log Max Number of Logs	The maximum number of events that can be logged.
②	Operation History Log Max Number of Logs	The maximum number of operations that can be logged.
③	Task History Log Max Number of Logs	The maximum number of tasks that can be logged in the task history.
④	Save Log Enabled	Check if you want to save a log of the script when the task is executed.
⑤	Data Log Max Period	The maximum period for which data logs can be recorded.
⑥	Data Log Log Interval (Normal mode)	Data log recording interval during normal operation.

Figure number	Item Name	Description
⑦	Data Log Log Interval (Battery mode)	Data log recording intervals during battery operation.
⑧	Extended Battery Log Max Period	The maximum period for which the extended battery log can be recorded.
⑨	Extended Battery Log Log Interval	Extended battery log recording interval.

⑧ and ⑨ are not used in S8BA

When you are finished, click the "Save" button to save the settings.

Application

This section describes applied functions such as setting to automatically shut down multiple computers and receiving email notifications when abnormalities occur.

Cooperation Shutdown

Set up if you want to automatically shut down multiple computers.
If you want to automatically shut down only computers connected to the UPS, this setting is not required.

「8. Automatically shutdown multiple computers (Cooperation Shutdown)」（page 69)

Smart Task

This is set when you want to automatically connect from the Software to other computers or other devices via the network during automatic shutdown to execute commands.
If only computers connected to the UPS are automatically shut down and command execution is not required, this setting is not required.

「9. Run scripts under set conditions (Smart Task)」（page 73)

Schedule

Set it up if you want to automatically shut down the UPS and computers connected to it according to a pre-set schedule.

「10. Register a schedule and perform the set actions」（page 82)

Email notification

Set this to receive email notifications when an event occurs, such as an input power failure.

「12. Notify you by email of input power failures, etc.」（page 89)

8. Automatically shutdown multiple computers (Cooperation Shutdown)

In a configuration where multiple computers are powered by a single UPS, in the event of an input power failure (e.g., power outage), all computers can be shut down in conjunction with the network.
Install the Software on all computers and set the computer that can communicate directly with the UPS with the USB or RS-232C as the primary and the other computers as the secondary.

8-1 If the primary is a computer

8-1-1 Set the primary

Use a computer that can communicate directly with the UPS with the USB or RS-232C as the primary.
If you do not use federated shutdown (if only one computer connects to the UPS), it will also be used as the primary.

Click on "Primary Settings" and you will see the following screen.

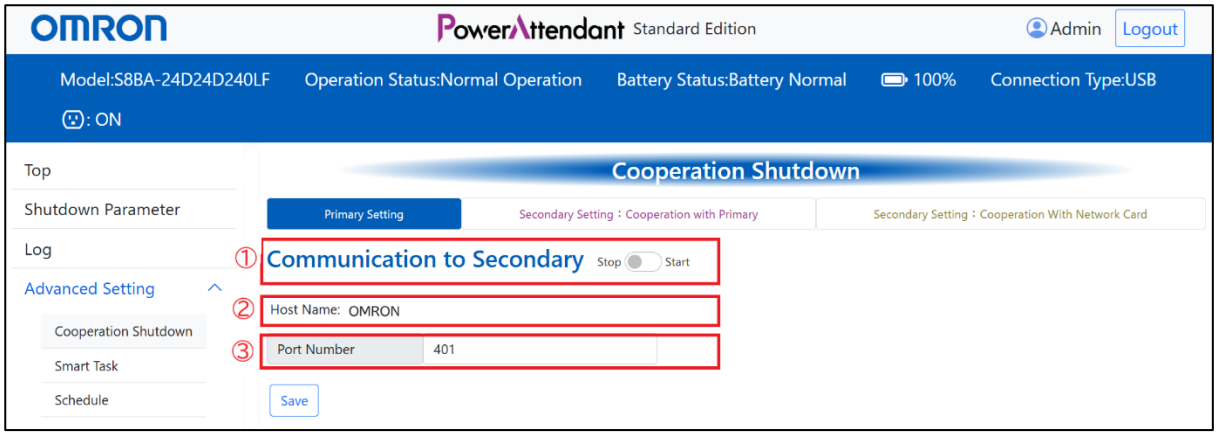


Figure number	Item Name	Description
①	Communication to Secondary	Set "Stop" and "Start" of communication with the secondary. If you set it to "Start", you can communicate with the secondary. (Responds if communication is received from the secondary) If you do not want to use cooperation shutdown (if only one computer is connected to the UPS), set it to "Stop".
②	Host Name	The hostname of the computer that is acting as the primary is displayed.
③	Port Number	Set the port number to use to communicate with the secondary. Basically, it is okay to keep the default value, but please change it as necessary, such as if it overlaps with the port number used by software other than this software. Make sure to set the same port number as the secondary. Firewalls must be configured on both the primary and secondary computers so that communication can be done with the port number you set. Make sure that TCP packets with the port number you set can communicate.

When you are finished, click the "Save" button to save the settings.

Please

If "Communication to Secondary" is set to "Start", you cannot change it to any other mode.
If you want to change it, set it to "Stop" and then choose a different mode.

Note

The cooperation shutdown is a mechanism that communicates from the secondary to the primary to check whether an input power failure (power outage, etc.) has occurred.
For this reason, the primary does not need to enter the secondary information to which it is connected. All you need to do is set the port number to be used to communicate with the secondary.

8-1-2 Set up a secondary (work with the primary)

If the Software is linked to a computer running as the primary mode, set it to this mode.

When you click "Secondary Settings (Cooperation with Primary)", the following screen is displayed.

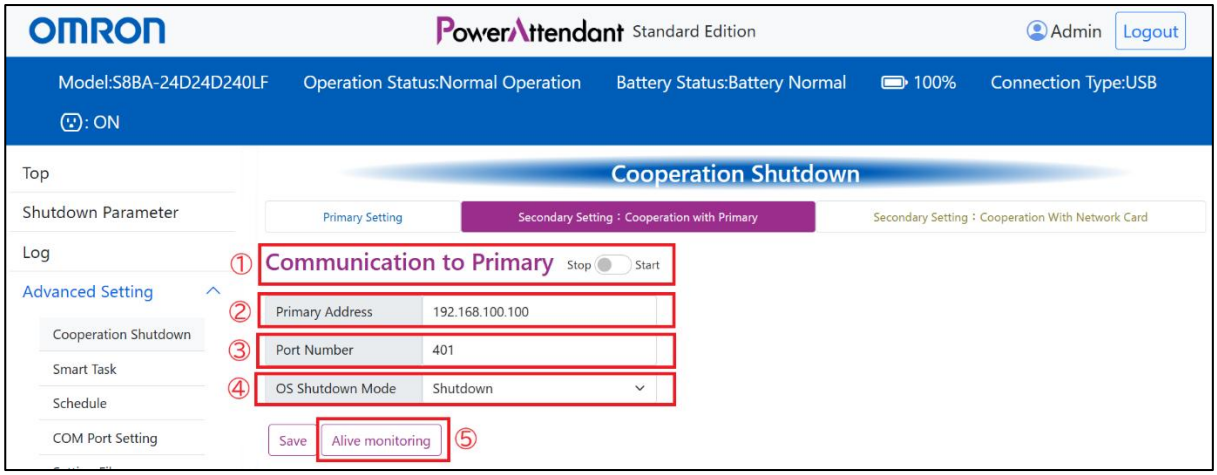
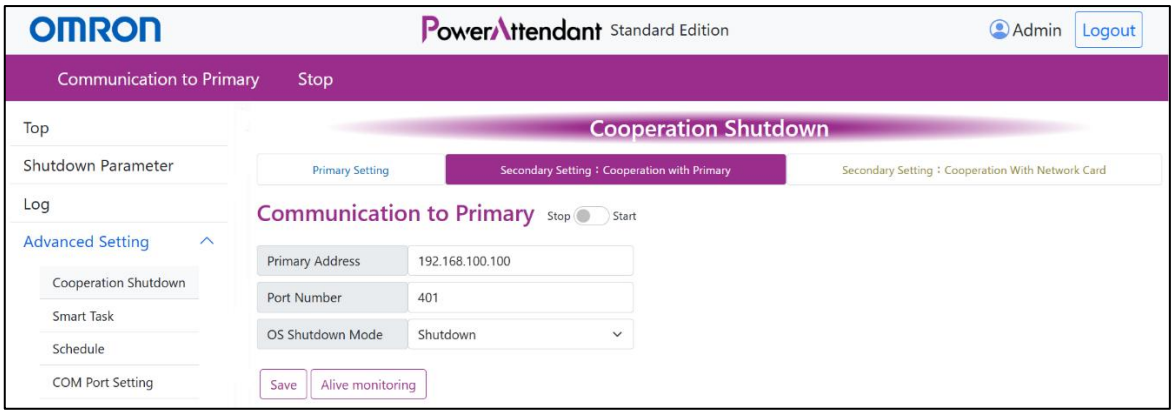


Figure number	Item Name	Description
①	Communication to Primary	Set the "stop" and "start" of communication with the primary. If you set it to "Start", it will start communicating with the primary set in the "Affiliate Address".
②	Primary Address	Set the primary IP address to be linked.
③	Port Number	Set the port number to use to communicate with the primary. Basically, it is okay to keep the default value, but please change it as necessary, such as if it overlaps with the port number used by software other than this software. Make sure to set the same port number as the primary. Firewalls must be configured on both the primary and secondary computers so that communication can be done with the port number you set. Make sure that TCP packets with the port number you set can communicate.
④	OS Shutdown Mode	Select the shutdown mode for the OS of the computer on which the secondary is running. Choose from "Shutdown" or "Hibernate". *If your computer does not support "hibernation", the "OS shutdown mode" of this software will not be displayed as an item on the screen.
⑤	Alive monitoring	Click to send a ping to the primary set in the "Linked Address". You can check if it can communicate with the primary you have configured.

When you are finished, click the "Save" button to save the settings.
When saved, the screen will look like this: If you set "Communication to Primary" to "Enabled", you will start communicating with the primary.



Please

If Communication to Primary is set to Start, you cannot change it to any other mode.
If you want to change it, set it to "Stop" and then choose a different mode.

8-2 If the primary is a network card

*If the primary connection UPS is S8BA, this function cannot be used because the network card cannot be attached. Do not set it to ' 8-2-1 Setting up a secondary (working with a network card)'.

8-3 List of functions available in primary and secondary

List of functions available for primary, secondary (communication with the primary).

○: Available ×: Not available

No.	Feature Name	Mode Name	
		Primary Settings	Secondary Settings (Communication with the Primary)
1	Top	○	×
2	Shutdown Parameters	○	×
3	Logs	○	○
4	Cooperation Shutdown	○	○
5	Smart Task	○	○
6	Schedule	○	○
7	Serial Port Setting	○	×
8	Setting File	○	○
9	UPS Configuration	○	×
10	UPS Control	○	×
11	UPS Redundancy	○	×
12	Email Notification	○	○
13	Others Port Setting	○	○
14	Others Various Setting	○	×
15	Others Command Send	○	×
16	Help	○	○

No.11 is not available on S8BA.

9. Run scripts under set conditions (Smart Task)

You can run the script when a set startup condition occurs, such as in the event of an input power failure.
The script to be executed and the communication target to which the script will be executed are registered as tasks.
For example, in the event of an input power failure, you can perform a shutdown operation to multiple computers by executing a script file to shut down the OS on multiple computers connected to the same network.

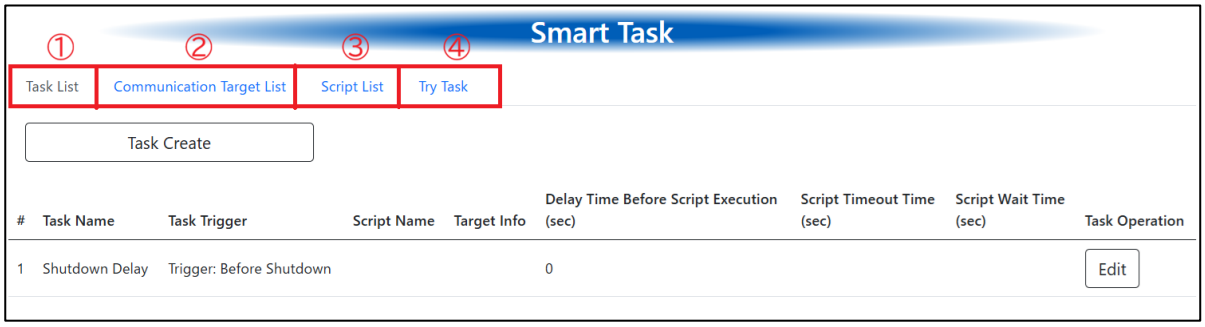
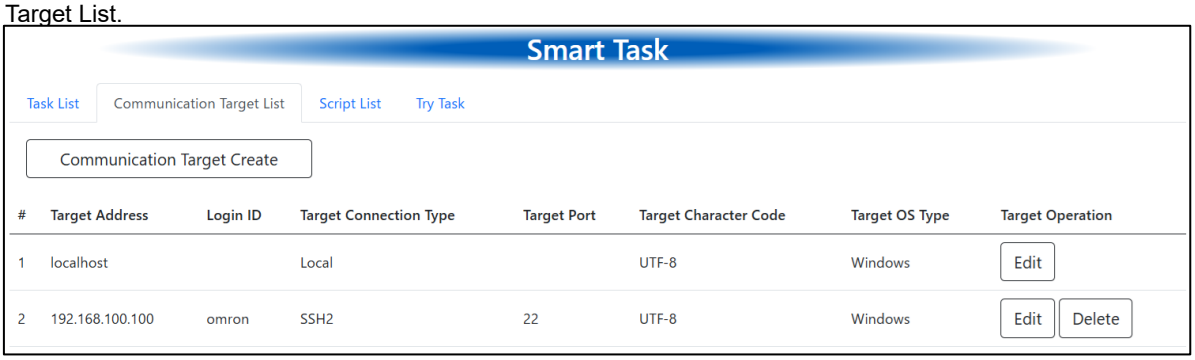


Figure number	Item Name	Description
①	Task List	Lists the tasks that have been registered. If you want to create a new task, click "Task Create" on this screen to display the registration screen.
②	Communication Target List	Lists the registered communication targets. If you want to register a new communication target, click "Communication Target Create" on this screen to display the registration screen.
③	Script List	Lists the scripts that have been registered. If you want to register a new script, click "Script Create" on this screen to display the registration screen.
④	Try Task	Click Update Task Information to list the registered tasks. Click the Run button on the task you want to run manually to execute it. Use this to test whether the task you have registered is working properly.

9-1 Register the script to be executed, the target, and the startup conditions as tasks

9-1-1 Registering a communication target

You can create a new communication target by clicking [Communication Target Create] in the Communication Target List.



When you click [Communication Target Create], the registration screen for Communication Target Create is displayed.

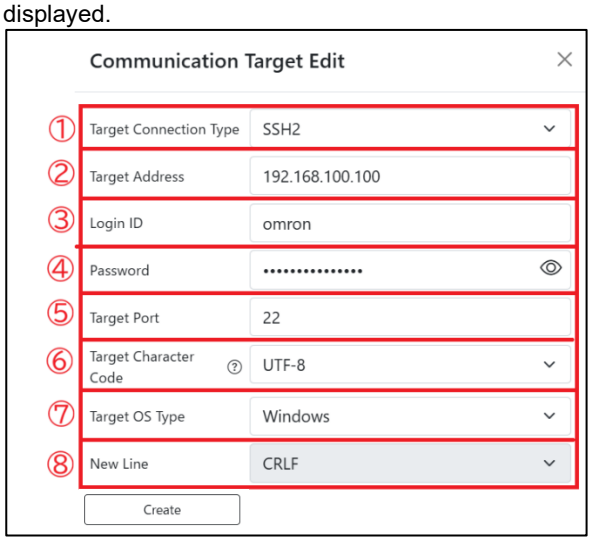


Figure number	Item Name	Configuration details
①	Target Connection Type	Select the following 3 methods to connect to the communication target to which the task will be executed. 「Local」 Select if you want to perform the task on the computer on which the Software is installed. 「SSH2」 Select if you want to connect with SSH. Only version 2 is supported. 「Telnet」 Select if you want to connect with telnet. When using Telnet, login IDs, passwords, etc. are transmitted without encryption, so there is a risk of eavesdropping on the network by third parties. Consider using SSH for secure and encrypted communication, or protecting it with other security devices and features.
②	Target Address	Set the IP address you want to connect to.
③	Login ID	Set the ID to log in to the connection destination. (Up to 64 characters, no character limit that can be used)

Figure number	Item Name	Configuration details
④	Password	Set a password to log in to the destination. (Up to 64 characters, no character limit that can be used)
⑤	Target Port	Set the port number to be used to communicate with the destination. If you select SSH2 in the Method, 22 is automatically selected, and if you select Telnet, 23 is automatically selected. If you need to communicate outside of these port numbers, change it.
⑥	Target Character Code	Select the character code you want to use. Please select the one that suits the environment in which the script will be executed.
⑦	Target OS type	Select the OS of the computer you want to connect to. Choose from Windows, Linux, or Other.
⑧	New Line	Select the newline code you want to use. If you select "Windows" for "Type of OS", "CRLF" is automatically set, and if you select "Linux", "LF" is automatically set. "Other" If you select CRLF, LF, or CR, select the one that best suits your environment.

After completing the settings, click the "Save" button to register the settings.

9-1-2 Register a script

You can create a new script by clicking [Script Create] in the script list.

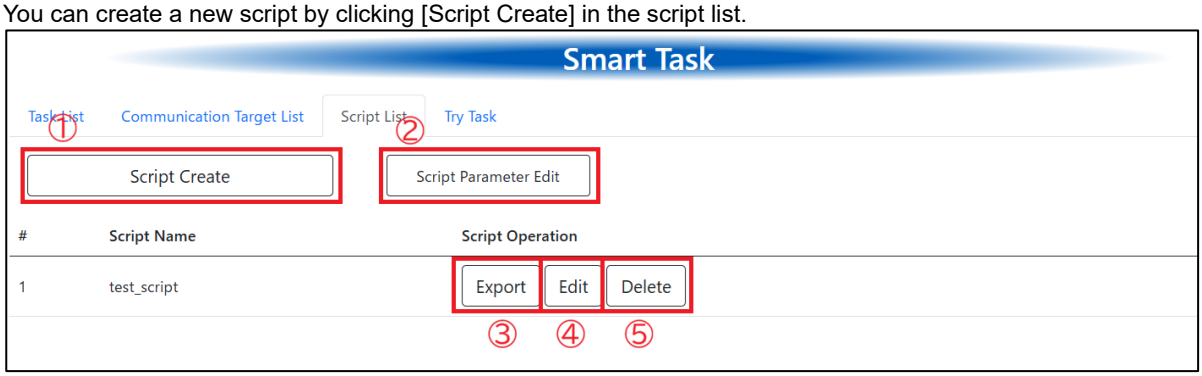
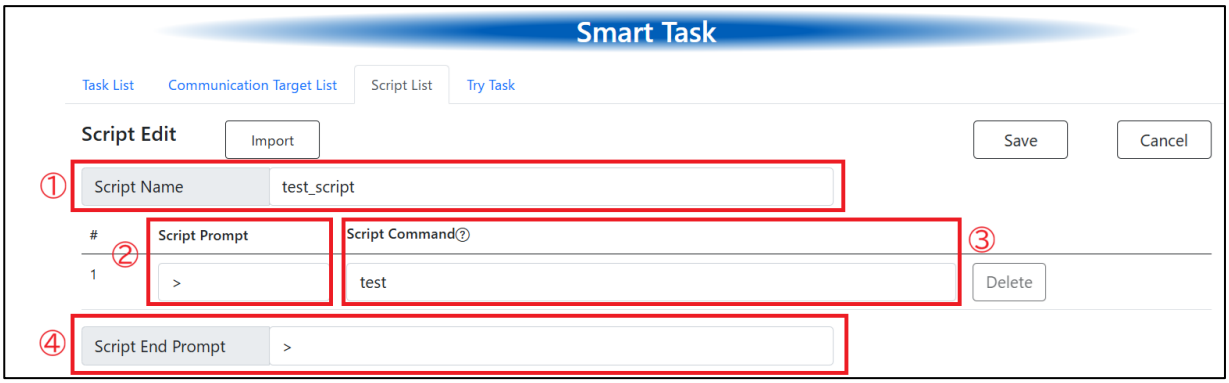


Figure number	Item Name	Configuration details
①	Script Create	Click on it to take you to the Script Create screen.
②	Script Parameter Edit	Click to see the editing screen for the variables used in the script.
③	Export	Click to output the contents of the script to a file.
④	Edit	Click to display the edit screen for the registered script.
⑤	Delete	Click to delete the script.

Script Create

When you click [Script Create], the Script Create screen is displayed.
Click Import to import the file where the script was written.



In the diagram Number	Item Name	Configuration details
①	Script Name	Register a name for the script.
②	Script Prompt	Set the prompt character to connect to.
③	Script Command	Set the command to run on the destination. You can increase the number of lines by entering the Enter key in the input field.
④	Script End Prompt	Set a prompt to determine the end of the script.

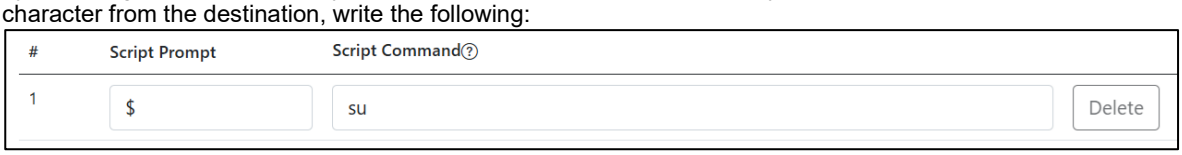
After completing the settings, click the "Save" button to register the settings.

Editing Script Variables

You can set up to 9 strings as variables to be used in your script.
It is useful to set frequently used strings or long strings.
Example:
If you set "Admin" to "$Data 1", if you write "$Data 1" in the script, it will be written as "Admin".
It will be the same as doing it.

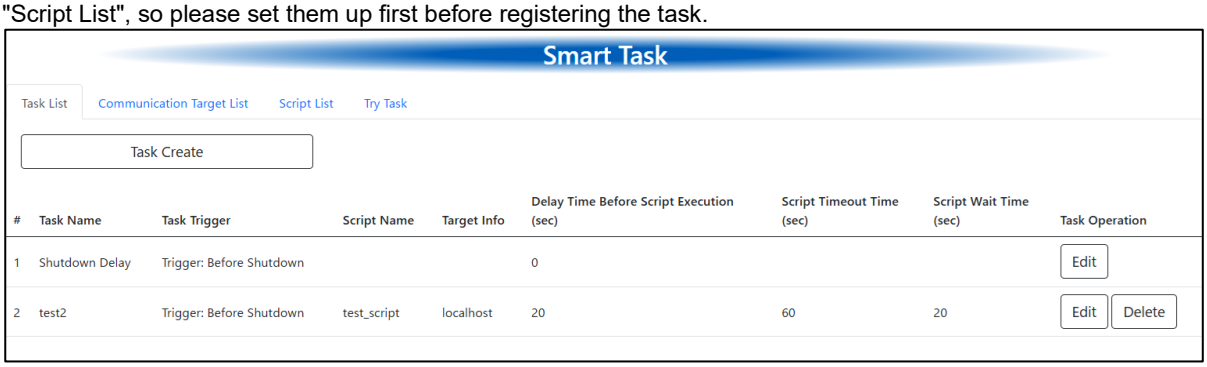
Script Writing

The script executes the command when it receives the configured prompt. Perform the necessary processing by repeating it. For example, if you want to send the command su when you receive "$" as a prompt character from the destination, write the following:



9-1-3 Register a task

You can create a new task by clicking [Task Create] in the task list.
The settings are made using the registered information displayed in the "Communication Target List" and "Script List", so please set them up first before registering the task.



Click [Task Create] to display the Task Create screen.

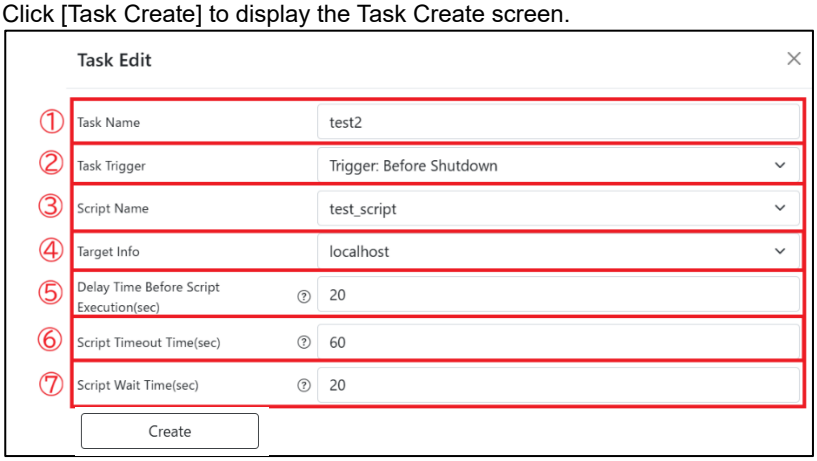
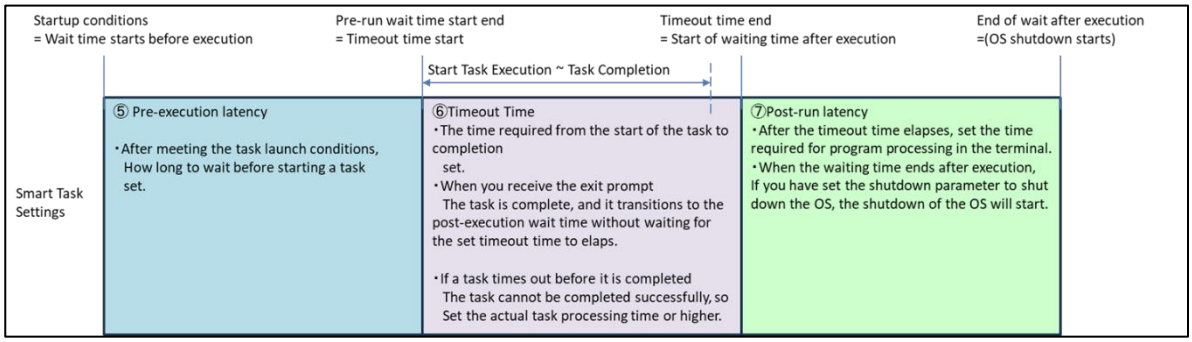


Figure number	Item Name	Description
①	Task Name	Set the name of the task.
②	Task Trigger	Set the conditions under which the task is launched. Choose from 4 options: Disabled Select if you want to create a task only and not run it. Input Power Failure Select if the input power failure (for example, power outage) occurs. "Restoration during waiting time" Select if the battery is restored during the delay time. Before System Shutdown Select if you want to perform a shutdown just before the shutdown.
③	Script Name	Select from the registered scripts.
④	Target Info	Select from the registered communication targets.
⑤	Delay Time Before Script Execution(sec)	Set the wait time before the task starts after the task starts the conditions.
⑥	Script Timeout Time(sec)	Set the required time from the start of the task to its completion. The task is completed when the exit prompt is received, and the set timeout Transition to post-execution wait time without waiting for the time to elaps.
⑦	Script Wait Time(sec)	After the timeout time has elapsed, set the time required for program processing in the terminal.



After completing the settings, click the "Save" button to register the settings. When you set the pre-run wait time, timeout time, and post-run wait time, it is displayed in the task time of the shutdown parameter.

Shutdown delay is added to the task by default.
Set to delay shutdown. Click [Edit] to display the Task Edit screen
It will be.

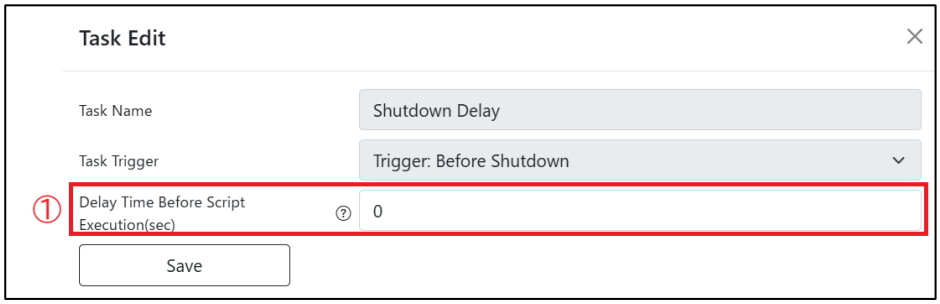


Figure number	Item Name	Description
①	Delay Time Before Script Execution(sec)	Set the time to delay the shutdown.

Note

In this software, "Standby time" and "Shutdown delay" have different meanings.
The differences between the 2 are as follows:

Items	Description
Standby time	In the event of an input power failure (e.g., power outage), this is the time to wait for a certain period of time to restore power without immediately performing a shutdown. If the power is restored within this time, the shutdown will not be performed. It's the grace time before the shutdown is confirmed.
Shutdown delay	After the wait time has elapsed and the shutdown is finalized, the time to delay the actual shutdown execution.

< time series image>

Power outage occurred → [Standby time] → shutdown is confirmed→ Shutdown is executed → [Shutdown Delay]

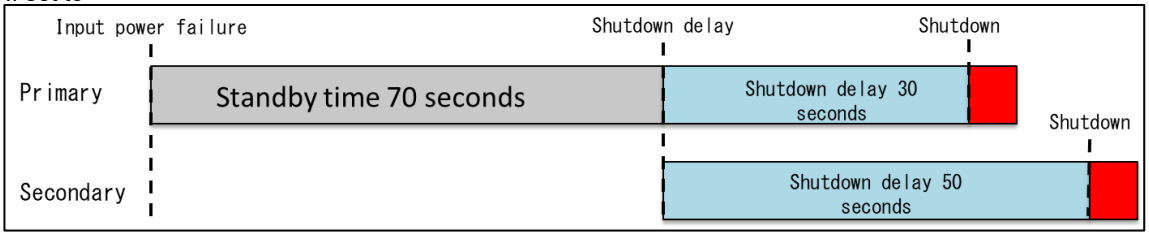
If you want to set the Standby time,

「5. Set the automatic shutdown function (Shutdown Parameter)」(page 54)

In federated shutdown, you can set the timing of each shutdown by setting a shutdown delay for each smart task.

Example: 70 seconds latency, 30 seconds primary shutdown delay, 50 seconds secondary shutdown delay

If set to



If you want to set up a primary or secondary 「8. Automatically shutdown multiple computers (Cooperation Shutdown)」(page 69)

9-2 Test the task behavior

You can manually execute the tasks you have created.
You can check if the task is running successfully.

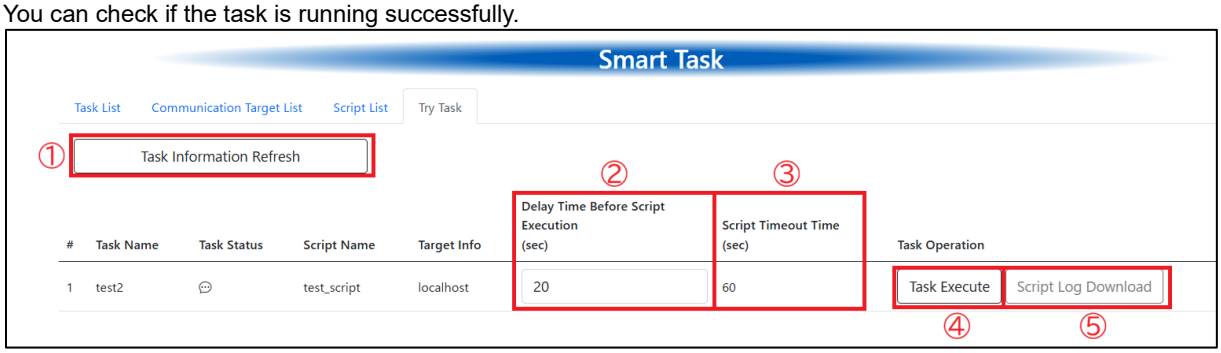
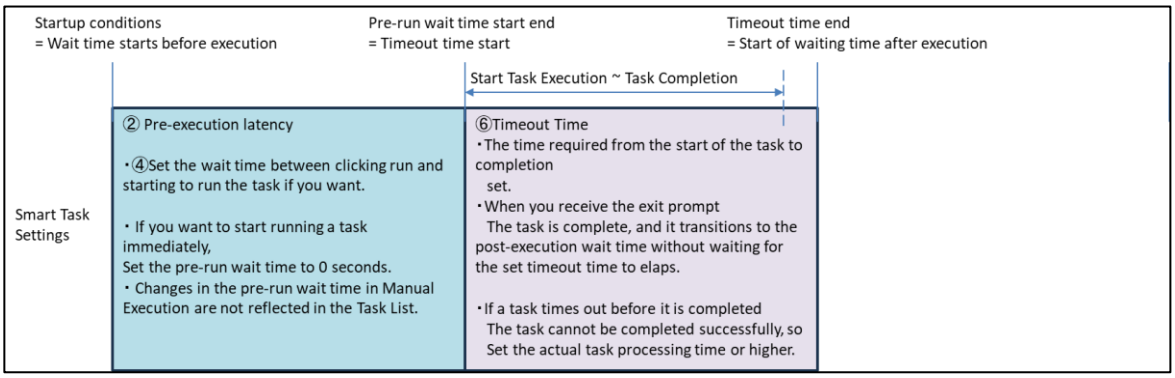
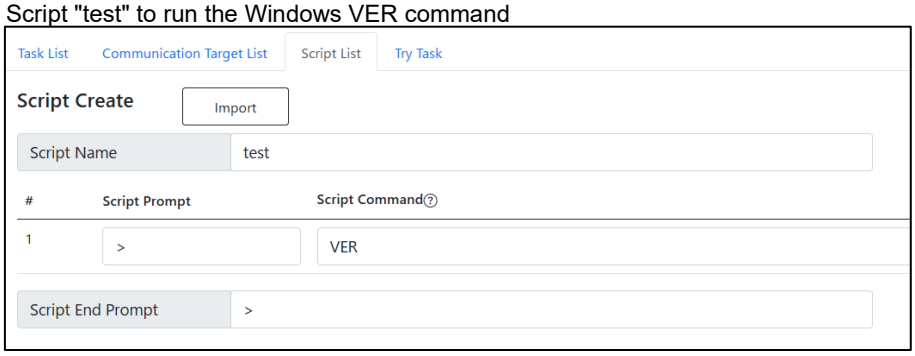


Figure number	Item Name	Configuration details
①	Task Information Refresh	Click to update the registered task information.
②	Delay Time Before Script Execution	(4) Set the waiting time from clicking to execute to starting the task if necessary. If you want to start running a task immediately, set the pre-execution wait time to 0 seconds. *Changes to the waiting time before execution in "Manual Execution" are not reflected in the "Task List".
③	Script Timeout Time	Set the time required for the task to be processed from start to finish. If the timeout time passes before the task finishes processing, it will time out, so set enough time to run the task.
④	Task Execute	Click to perform the task.
⑤	Script Log Download	Click to download the log of the execution results.

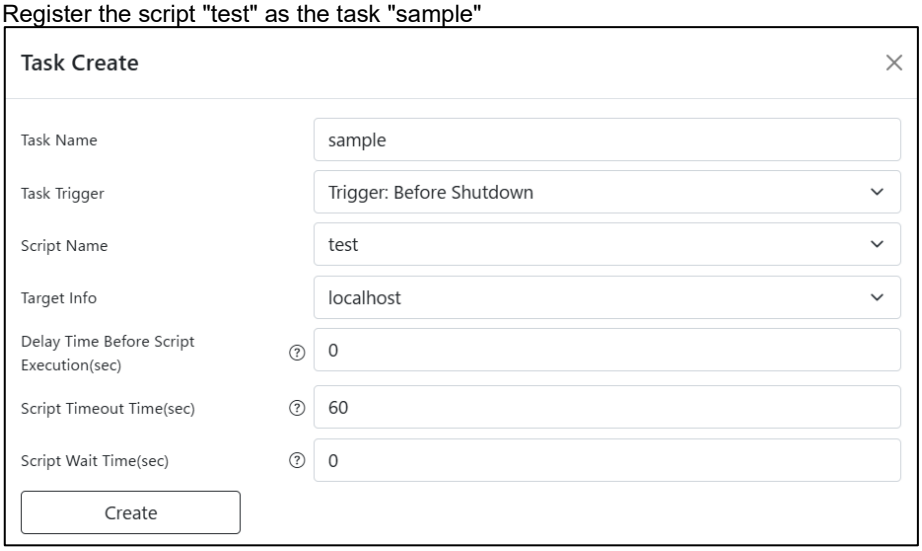


Example: If you have registered the script shown below as a task and run it manually

Script "test" to run the Windows VER command



Register the script "test" as the task "sample"



Log of the result of manually running the task "Sample" (downloaded with the file name "test.txt")

Microsoft Windows [Version 10.0.19045.3930] (c) Microsoft Corporation. All rights reserved.	← Log in to your local computer
C:¥Program Files¥OMRON¥PowerAttendant>VER	← VER Run the command
Microsoft Windows [Version 10.0.19045.3930]	← VER Command execution results
C:¥Program Files¥OMRON¥PowerAttendant>	← Prompt for Execution

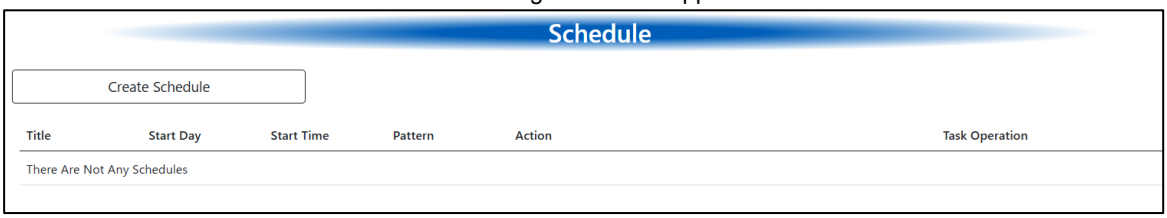
By checking the above logs, I was able to confirm that the script "test" was executed correctly.

10. Register a schedule and perform the set actions

At a predetermined date and time, the computer and UPS on which the Software is installed can perform the following actions:

Types of Actions	Contents
UPS Stop	Based on the shutdown parameter settings, stop the UPS after shutting down the OS of the computer connected to the UPS.
Stop/Start UPS	After "UPS Stop Operation", the UPS will automatically start up after the specified time.
Self-diagnostic tests	Perform a UPS self-diagnostic test.

Select "Schedule" from the menu and the following screen will appear.



When you click Create Schedule, the Create Schedule screen is displayed.

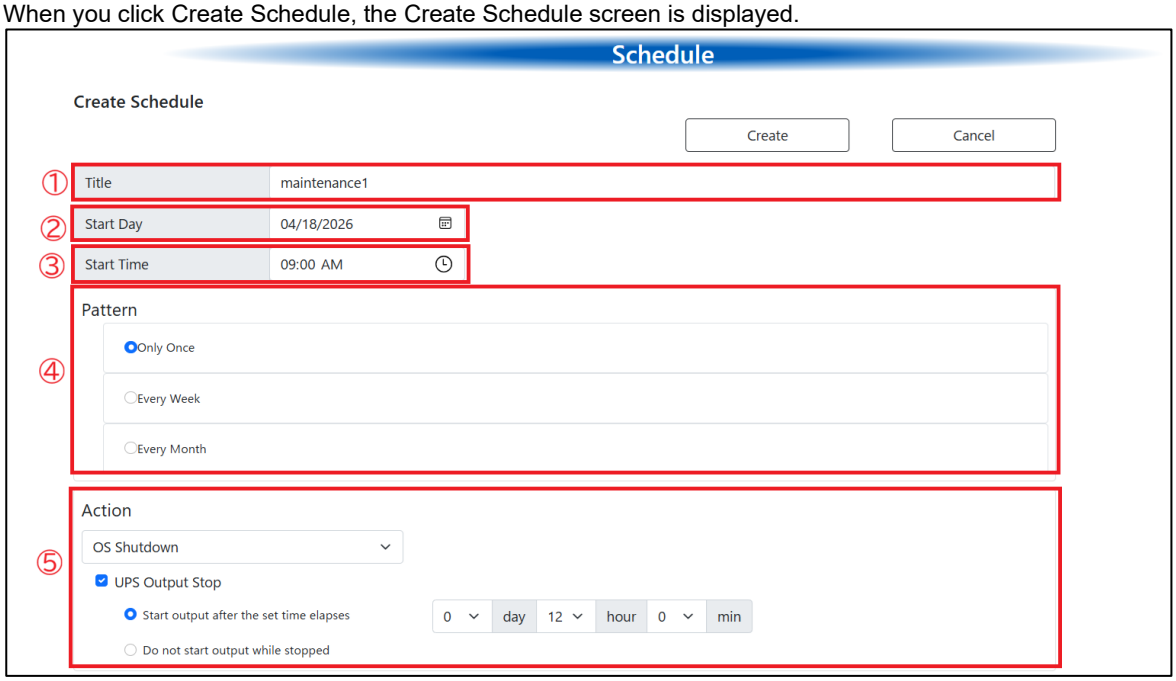


Figure number	Item Name	Configuration details
①	Title	Set the name of the schedule you want to set.
②	Start Day	Set the date on which the schedule will run first.
③	Start Time	Set the start time for the schedule.
④	Pattern	Select the pattern in which the schedule runs.

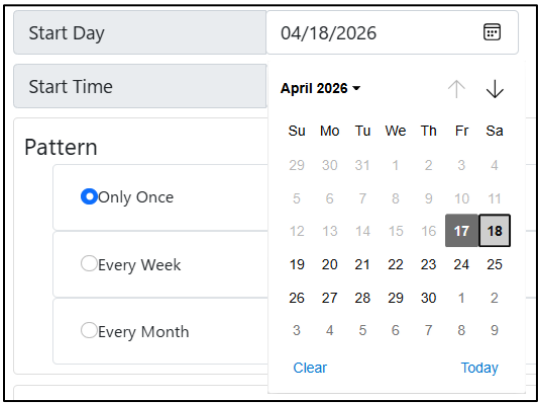
Figure number	Item Name	Configuration details
⑤	Action	Set the actions to be performed on the schedule.

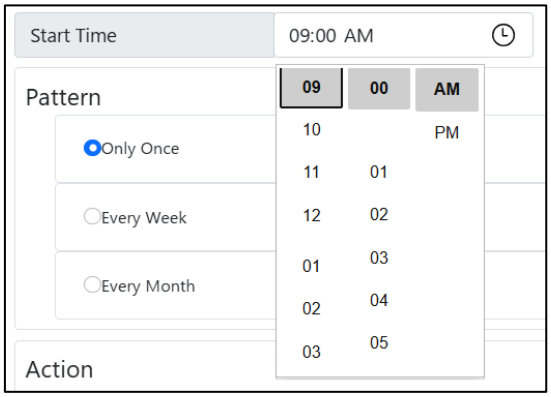
Note

- The scheduled operation is performed even during the operation of the setting screen.

There are 3 types of patterns to choose from, but in any pattern, the "Start Day" and "Start Time" you set will be the first date and time when the scheduled action will be executed.
For this reason, first set the date and time you want the schedule to run first.

Click the icon to set the start date and start time.
Direct input is also possible.





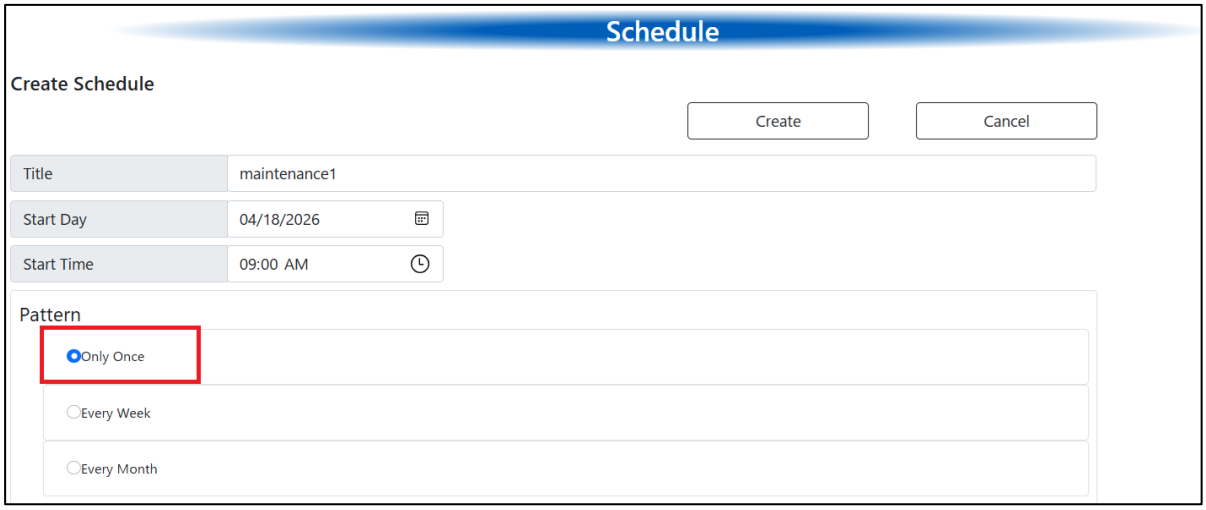
After completing the settings, click the "Save" button to register the settings.

10-1 Create a schedule

There are 3 types of schedule registration patterns:

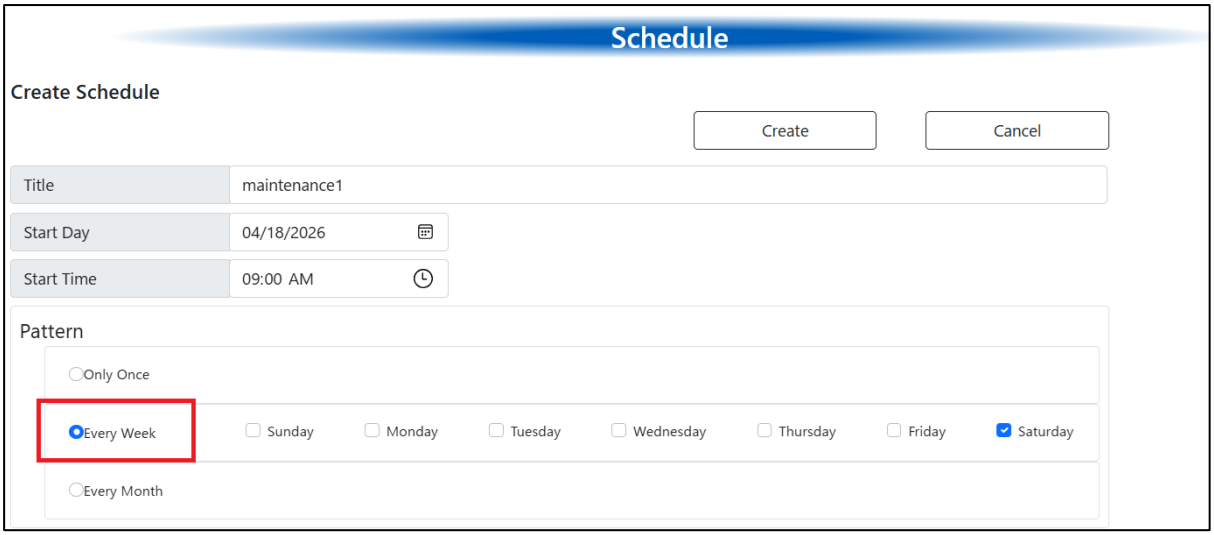
10-1-1 If you want to run it only on certain days

This is how to set it up if you want to run it only once at the set date and time.
Select "Only once" in the "Pattern" settings.



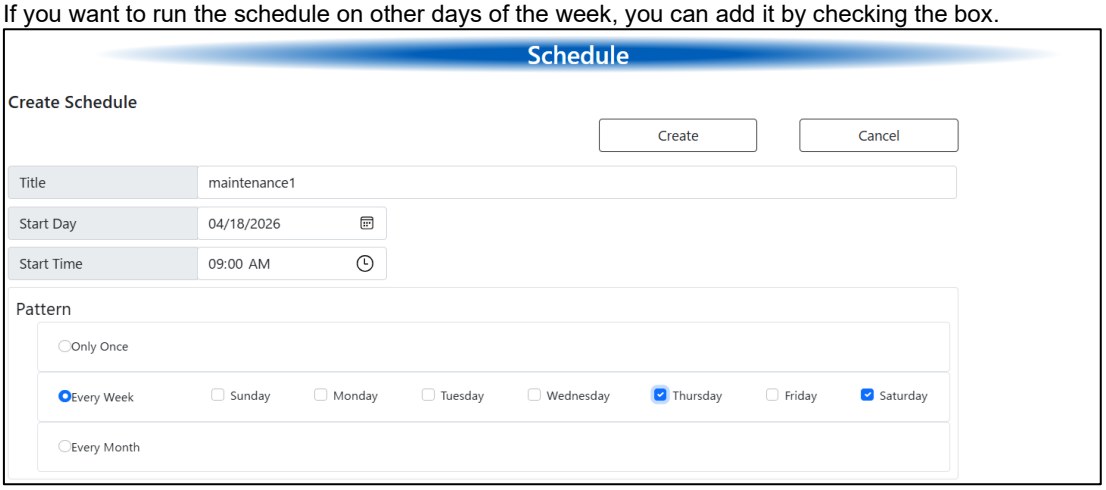
10-1-2 If you want to run it on a specific day of the week

This is how to set it up if you want to run it on a set day of the week.
In the "Pattern" settings, select "Every week".



The day of the week for the date you set in Start Date is automatically selected.
(In the above example, 2 July 15, 2023 is a Saturday, so it will be automatically checked on Saturday.)

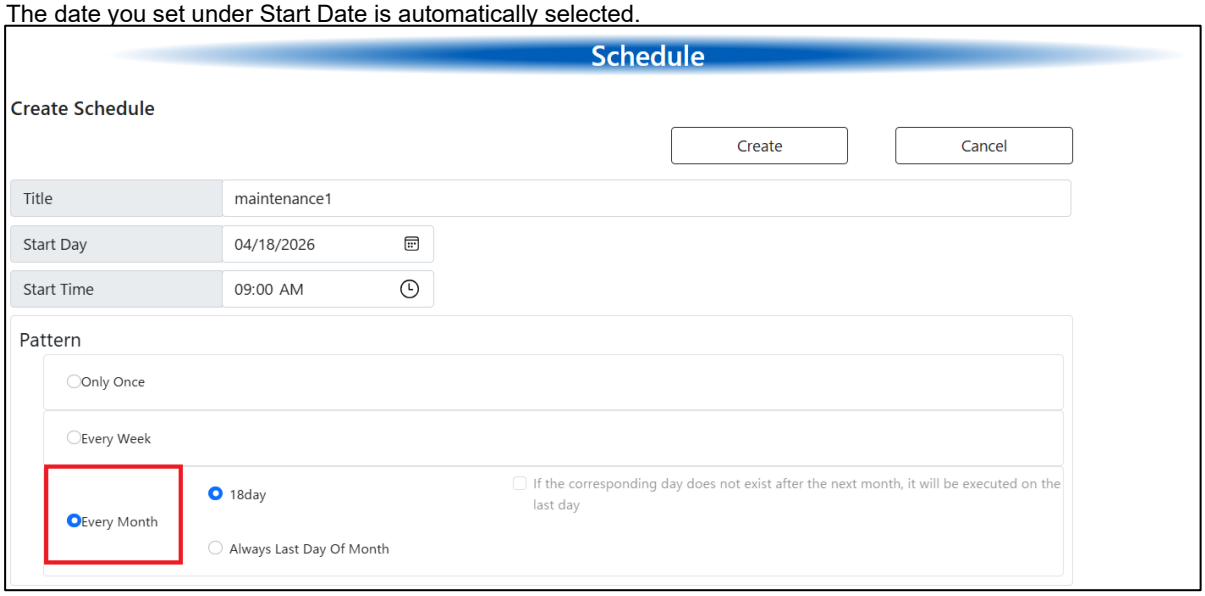
If you want to run the schedule on other days of the week, you can add it by checking the box.



If you add Thursday in this way, the first schedule execution date will be Saturday, July 15.
For this reason, the checked Thursday will be treated as Thursday, July 20 of the following week.
If you check all days of the week, the schedule runs on all days of the week.
If you want to do it every day, check all days of the week.

10-1-3 If you want to run it on a fixed day every month

This is how you want to run it every month on the set day.
In the "Pattern" setting, select "Every month".
The date you set under Start Date is automatically selected.



3 If you set a date where the corresponding day may not exist after the next month, such as the 1st day, you can set "If the corresponding day does not exist after the next month, it will be executed on the last day". If this setting is checked, run the schedule on the last day of each month. If it is not checked, the schedule will not run on months where 30 or 28 is the last day, because it will only run on 31 days.
If you select Always last day of the month, make sure to run the schedule on the last day of the month each month.

Please

If you have created multiple schedules on the same date and time, you cannot determine in which order the created schedules will be executed. Please register by shifting the time.

10-2 Configure behavior

Set the actions to run at the date and time you set in the schedule.

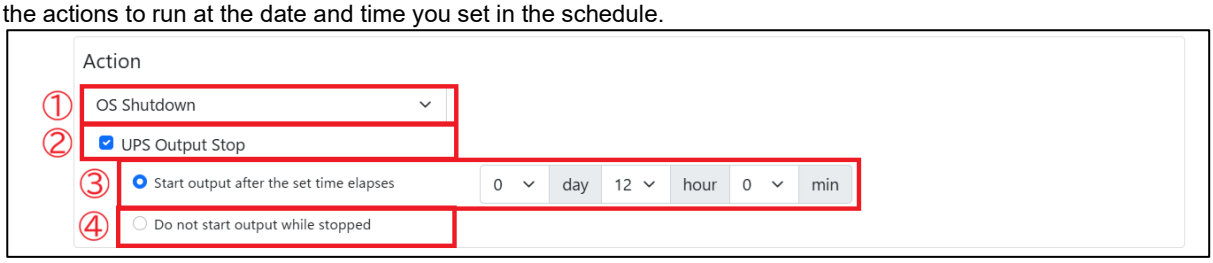


Figure number	Item Name	Configuration details
①	Action	Select the action you want to perform on the scheduled date and time. Choose from "OS Shutdown" or "UPS Self-Diagnostic Test".
②	UPS Output Stop	If checked, it will stop the output of UPS after the schedule runs. If it is not checked, it will only perform the operation and the output of UPS will not stop.
③	Start output after the setting time elapses	Select if you want to start outputting UPS after the set time has elapsed after the UPS output has stopped. Set the shutdown and restart of the computer connected to the UPS to be scheduled for operation, for example.
④	Do not start output while stopped	Select if you want to keep the output of UPS stopped after performing a shutdown.

Please

- If you select "UPS Self-Diagnostic Test" in the operation, the items (2), (3), and (4) are not displayed on the screen because the shutdown is not performed.
- If "UPS Output Stop" is not checked, the UPS output will not be stopped, so items (3) and (4) will not be displayed on the screen.

11. Operate in redundant configurations with multiple UPS

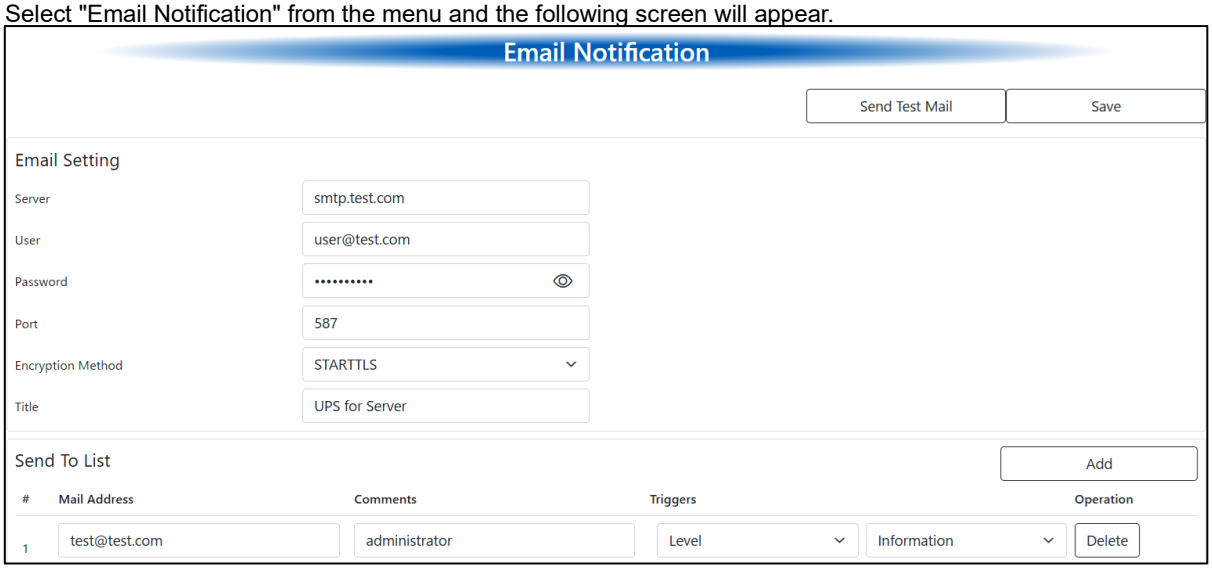
*This function is not available on S8BA. Do not set it to ' UPS Redundancy '.

12. Notify you by email of input power failures, etc.

If the event occurs, the recipient will be notified by email.

12-1 Set up email notifications

Select "Email Notification" from the menu and the following screen will appear.



Email Settings
In order to send emails from the Software, you need to connect to the SMTP server of the email service you are using. Set the information you need to do so.
You must set all the items to save the settings.

Item Name	Configuration details
Server	Sto set the address of the SMTP server. Example: smtp.XXXXXX.com (Up to 64 characters, no character limit that can be used)
Users	Set up the email address of the user for sending emails. Example: XXXXXXXX@XXXXXX.com (Up to a maximum of 128 characters, "" and "," cannot be used.)
Password	Set a password for the user. (Up to 64 characters, no character limit that can be used)
Ports	Set the SMTP port number to use. (The port number that can be set is from 1 to 65535)
Encryption method	Set the encryption method. Choose from 3 options: None, TLS, and STARTTLS.
Title	Set a title for your outgoing email. (Up to 64 characters, no character limit that can be used)

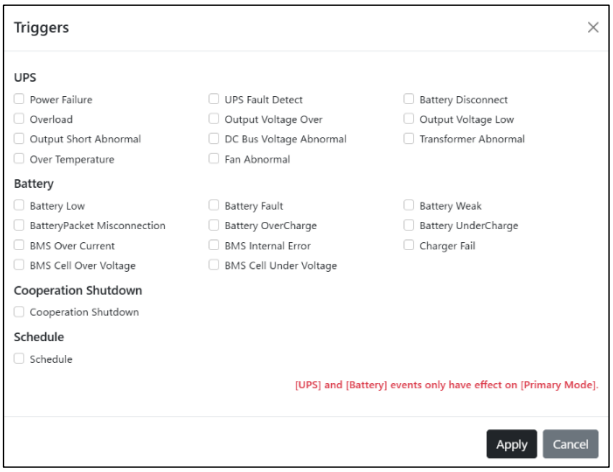
The settings for settings other than the title (settings for SMTP servers) vary depending on the email service used. Please set your settings according to the information provided by each email service.

Recipient List
Set up the recipients of the email.

Item Name	Configuration details
Mail Address	Set the recipient's email address. (Up to a maximum of 128 characters, "" and "," cannot be used.)
Comments	You can set a string to identify the email address. It is used only for this screen display and is not reflected in the body of the email. Entering this item is optional, and you can save the settings even if you leave it blank. (Up to 64 characters, no character limit that can be used)
Triggers	Select the event that triggers the email to be sent. If you selected Level in the drop-down menu, select one of the Info, Warning, or Error in the drop-down menu on the right to set the level of the event that triggers the email send. Info: Triggers all events for Info, Warning, and Error. Warning: Triggers a Warning or Error event Error: Triggers only the Error event The list of events included in each level is 「12-2 List of events notified by email」（page 92） If you select Individual in the drop-down menu, you will see an Event Select button. When clicked, a screen pops up to select events individually. Check the event you want to trigger the email.
Add button	Click to add a row of settings for one address. When you set it up for the first time, the setting field is not displayed in the recipient list, so click the [Add] button to create a row. You can add up to 8 lines (8 recipients).
Delete button	Click on it to delete the rows you created with the Add button. Each row has a Delete button, so only one row is deleted.

If you select Individual from the Event Selection drop-down menu

When you click [Triggers], the "Triggers" screen will appear. pop-up



If you select Level from the Event Selection drop-down menu

Submit Test button
Depending on what you have set, send a test email to everyone you have set to the "Send To List".
You can easily check if you can connect to an SMTP server and send emails without raising a trigger event.

Save button
Save the setting information on the "Email Notification" screen.

Note

The body of the e-mail sent from the Software is as follows.
Example: Email in the event of an input power failure

2025/02/25 19:16:04	← Date and time of the event
Level Warning	← Level of Event Occurred
Type UPS	← Indicate that the event occurred at UPS
Power Failure: A3Y20110001805G	← The event that occurred and the UPS serial number that occurred

12-2 List of events notified by email

List of events notified by selecting individual and level emails for email notifications

○: Email notification ×: Email notification not

No.	Event Name	Individual Selection Item Name	Level Selection Name		
			Information	Warnings	Error
1	Restore power	Input power failure	○	×	×
2	Primary mode started	Cooperation Shutdown	○	×	×
3	Primary mode stopped	Cooperation Shutdown	○	×	×
4	Worked with the secondary	Cooperation Shutdown	○	×	×
5	Secondary mode started	Cooperation Shutdown	○	×	×
6	Secondary mode stopped	Cooperation Shutdown	○	×	×
7	Worked with the primary	Cooperation Shutdown	○	×	×
8	Call Restoration Notification	Cooperation Shutdown	○	×	×
9	Input Power Failure Notification	Cooperation Shutdown	○	×	×
10	Integration Shutdown Notification	Cooperation Shutdown	○	×	×
11	Reconnected to the integrated host	Cooperation Shutdown	○	×	×
12	Recovery detection	Cooperation Shutdown	○	×	×
13	Scheduled UPS Self-Diagnostic Test Launched	Schedule	○	×	×
14	The battery failure has been restored	Battery Abnormal Detection	○	×	×
15	Battery connected	Battery disconnection	○	×	×
16	Battery overcharge abnormality has been restored	Battery overcharge abnormality	○	×	×
17	The battery charge shortage abnormality has been restored	Low battery charge abnormality	○	×	×
18	Battery misconnection restored	Battery misconnection	○	×	×
19	UPS abnormalities have been restored	UPS Anomaly Detection	○	×	×
20	Connection capacity over has been restored	Connection capacity over	○	×	×

No.	Event Name	Individual Selection Item Name	Level Selection Name		
			Information	Warnings	Error
21	Overvoltage restored	Overvoltage	○	×	×
22	Low voltage restored	Low voltage	○	×	×
23	DC bus voltage abnormalities have been restored.	DC bus voltage anomalies	○	×	×
24	Output short circuit abnormality has been restored	Output Short Circuit Abnormality	○	×	×
25	Temperature anomalies have been restored	Temperature anomalies	○	×	×
26	BMS overcurrent restored	BMS Overcurrent	○	×	×
27	BMS internal error recovered	BMS internal error	○	×	×
28	Charging failure has been restored	Charging failure	○	×	×
29	BMS cell overvoltage has been restored	BMS cell overvoltage	○	×	×
30	BMS cell low voltage has been restored	BMS cell low voltage	○	×	×
31	The transformer abnormality has been restored	Trans abnormalities	○	×	×
32	Fan abnormalities have been restored	Fan abnormality	○	×	×
33	I replaced the battery	Battery degradation	○	×	×
34	I replaced the battery	Battery life	○	×	×
35	I replaced the battery	Battery life	○	×	×
36	I replaced the battery	Battery life	○	×	×
37	Input power failure	Input power failure	○	○	×
38	Battery low occurred	Battery Low	○	○	×
39	Battery degradation occurs and the battery needs to be replaced	Battery degradation	○	○	×
40	The secondary connection during integration is disconnected	Cooperation Shutdown	○	○	×
41	Input Power Failure Detection	Cooperation Shutdown	○	○	×
42	The primary connection is disconnected	Cooperation Shutdown	○	○	×

No.	Event Name	Individual Selection Item Name	Level Selection Name		
			Information	Warnings	Error
43	Abnormal communication data	Cooperation Shutdown	○	○	×
44	Communication device not found	Cooperation Shutdown	○	○	×
45	The connection timed out	Cooperation Shutdown	○	○	×
46	Shutdown initiated by schedule	Schedule	○	○	×
47	Failed to start the scheduled UPS self-diagnostic test. The connected UPS does not support self-diagnostic tests.	Schedule	○	○	×
48	Scheduled UPS self-diagnostic test failed. The request to the UPS was rejected.	Schedule	○	○	×
49	Failed to start the primary interlock service	Coordinated Shutdown	○	○	○
50	Failed to use the listening port	Coordinated Shutdown	○	○	○
51	Communication error during interlock operation	Coordinated Shutdown	○	○	○
52	Failed to start the secondary interlock service	Coordinated Shutdown	○	○	○
53	Battery abnormality detected	Battery Abnormality Detected	○	○	○
54	Battery disconnection detected	Battery Disconnection	○	○	○
55	Battery overcharge abnormality occurred	Battery Overcharge Abnormality	○	○	○
56	Battery undercharge abnormality occurred	Battery Undercharge Abnormality	○	○	○
57	Battery misconnection detected	Battery Misconnection	○	○	○
58	UPS abnormality detected	UPS Abnormality Detected	○	○	○
59	Connected load capacity exceeded	Load Capacity Exceeded	○	○	○
60	Overvoltage occurred	Overvoltage	○	○	○
61	Undervoltage occurred	Undervoltage	○	○	○
62	DC bus voltage abnormality occurred	DC Bus Voltage Abnormality	○	○	○
63	Output short-circuit abnormality occurred	Output Short-Circuit Abnormality	○	○	○

No.	Event Name	Individual Selection Item Name	Level Selection Name		
			Information	Warnings	Error
64	Temperature abnormality occurred	Temperature Abnormality	○	○	○
65	BMS overcurrent occurred	BMS Overcurrent	○	○	○
66	BMS internal error occurred	BMS Internal Error	○	○	○
67	Charging failure occurred	Charging Failure	○	○	○
68	BMS cell overvoltage occurred	BMS Cell Overvoltage	○	○	○
69	BMS cell undervoltage occurred	BMS Cell Undervoltage	○	○	○
70	Transformer abnormality occurred	Transformer Abnormality	○	○	○
71	Fan abnormality occurred	Fan abnormality	○	○	○

Other features

This section describes the configuration of the UPS itself, importing and exporting configuration files, etc.

13. Configure the serial port 97
14. Changing the settings of the UPS itself 98
15. Control the UPS Body 100
16. Change login ID and password 101
17. Other settings 103
18. Importing and exporting configuration files 106
19. Check the version information 107
20. Uninstall software 110

13. Configure the serial port

Set the serial port to be used when connecting the UPS to the RS-232C.
If you want to make a serial connection with the UPS, make this configuration first.

Note

This setting is only valid when connected to the UPS and RS-232C.

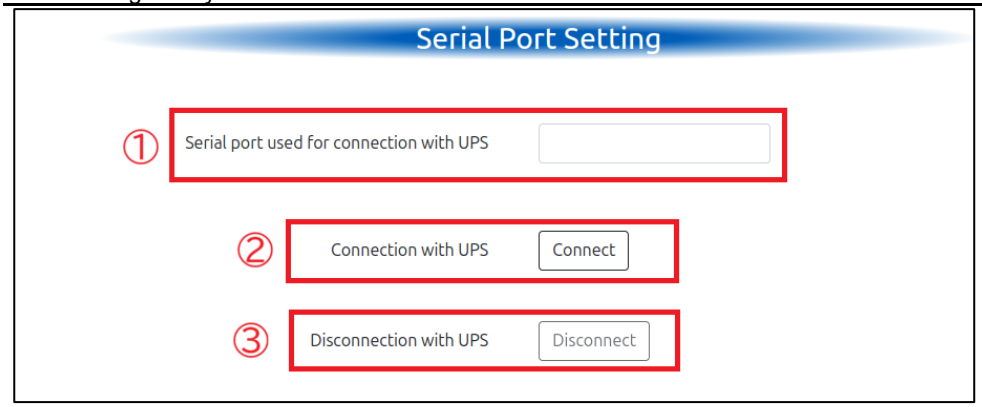


Figure number	Item Name	Configuration details
①	Serial port used for connection with UPS	Set the serial port to be used to connect with the UPS. Please manually enter the device name that UPS is using, such as "/dev/ttyS1".
②	Connection with UPS	Click the Connect button when connecting to the UPS and the serial port.
③	Disconnection with UPS	Click the "Disconnect" button when disconnecting from the UPS connected by the serial port.

Please

If you want to stop connecting on the serial port, such as if you want to change to a USB connection with another UPS, click Disconnect to disconnect the serial connection and then make the change.

14. Changing the settings of the UPS itself

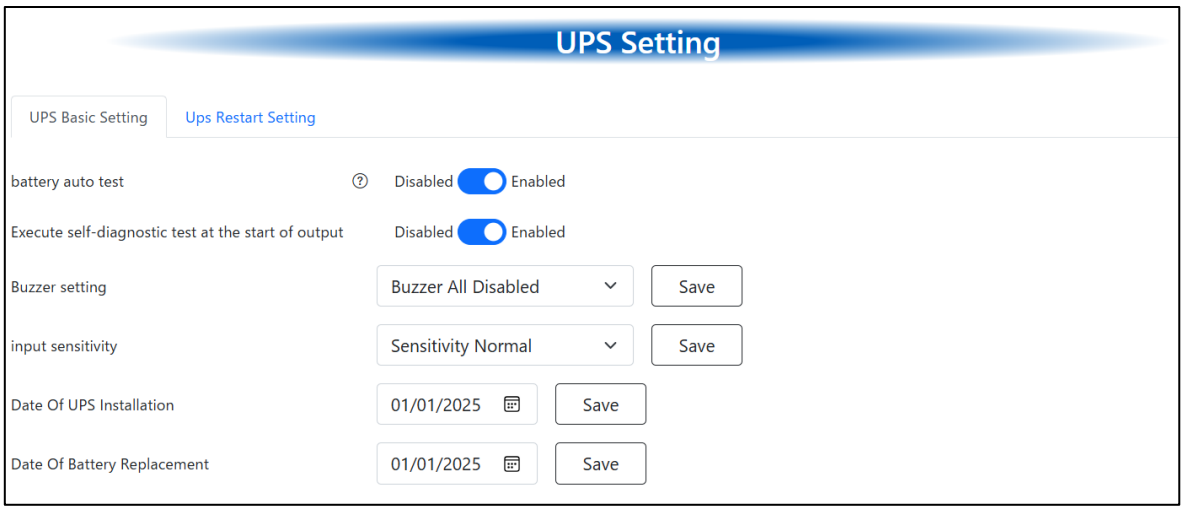
You can set the settings of the UPS itself, the replacement date of the internal battery, etc.
The screen displayed varies depending on the UPS model you are connected to.

Note

・This setting item is not displayed as a setting item on models that do not have a function that the UPS itself supports.
・For details on the functions of this setting item, refer to the user manual of the UPS itself.

14-1 Basic Setup

The following screen is an example of the basic settings screen. What settings are displayed depends on the UPS model you are connected to.



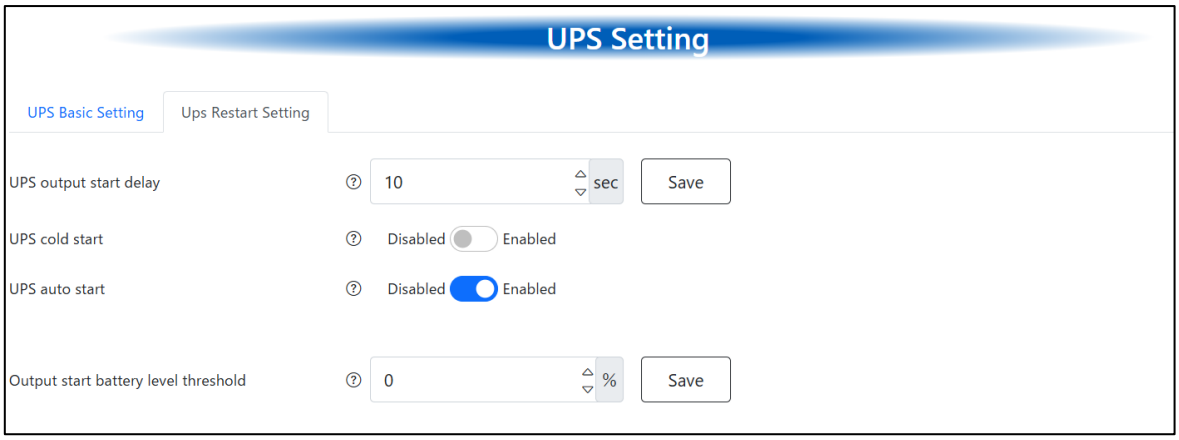
From the following settings, only the items that are supported by the connected UPS are displayed.

Item Name	Configuration details
battery auto test	On the UPS itself, you set whether you want to perform automatic battery tests.
Execute self-diagnostic test at the start of output	Sets whether to run a self-diagnostic test at the start of the output.
Buzzer setting	Choose from the following 3 options for setting to sound the buzzer. "Always disabled", "Disabled when battery is running", "Always active"
input sensitivity	Select from the following 3 options for input sensitivity settings. "Standard Sensitivity", "High Sensitivity", "Low Sensitivity"
Date Of UPS Installation	Set the start date for using UPS.
Date Of Battery Replacement	Set the battery replacement date.

For settings that have a [Save] button, click the [Save] button to save the settings after the settings are finished.

14-2 Output Start Setting

UPS Settings related to controlling the output when starting.
The screen displayed varies depending on the UPS model you are connected to.



From the following settings, only the items that are supported by the connected UPS are displayed.

Item Name	Configuration details
UPS output start delay	Set this to if you want to delay the start of the output when you start the UPS. Do not set "0". If "0" is set, the output state after UPS startup depends on other setting conditions and models. may not be the expected result.
UPS cold start	Set up about cold start of UPS. If enabled, it is possible to use the battery to start the UPS even if there is no A or C input to the UPS.
UPS auto start	Set up automatic UPS start-up. If enabled, UPS will automatically start when you restore it.
Output Start Battery Level Threshold	Sets the threshold for how much battery power is left before output starts.

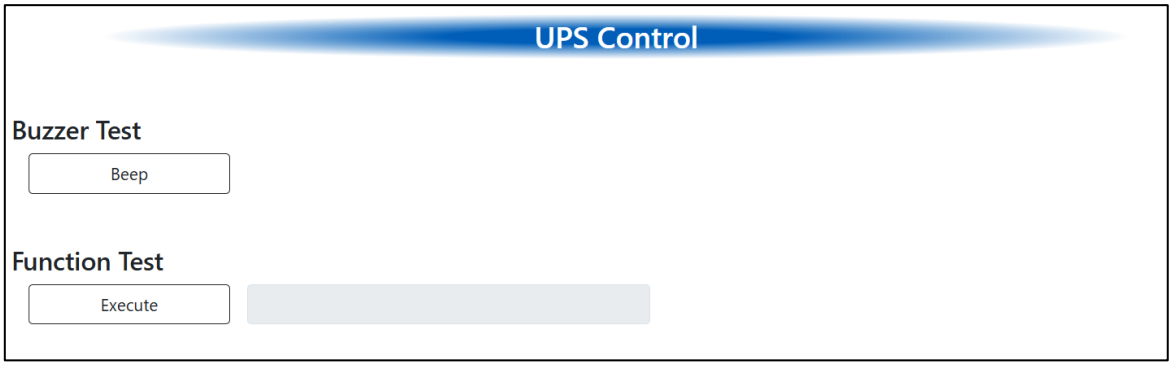
For settings that have a [Save] button, click the [Save] button to save the settings after the settings are finished.

15. Control the UPS Body

Take control of the UPS. The screen displayed varies depending on the UPS model you are connected to.

Note

・This item will not be displayed as an item on models that do not have a function that the UPS itself does not support.
・For details on the functions of this item, refer to the user manual of the UPS itself.



From the following items, only the items that are supported by the connected UPS are displayed.

Figure number	Item Name	Configuration details
①	Buzzer Test	Click "Ring" to sound the buzzer. Use to check if the buzzer is faulty.
②	Function Test	Click Run to run the self-diagnostic test. Please use it to check if the UPS is malfunctioning.

16. Change login ID and password

You can change the login ID and password of the user.

16-1 Change your password

Change the password of the registered user.

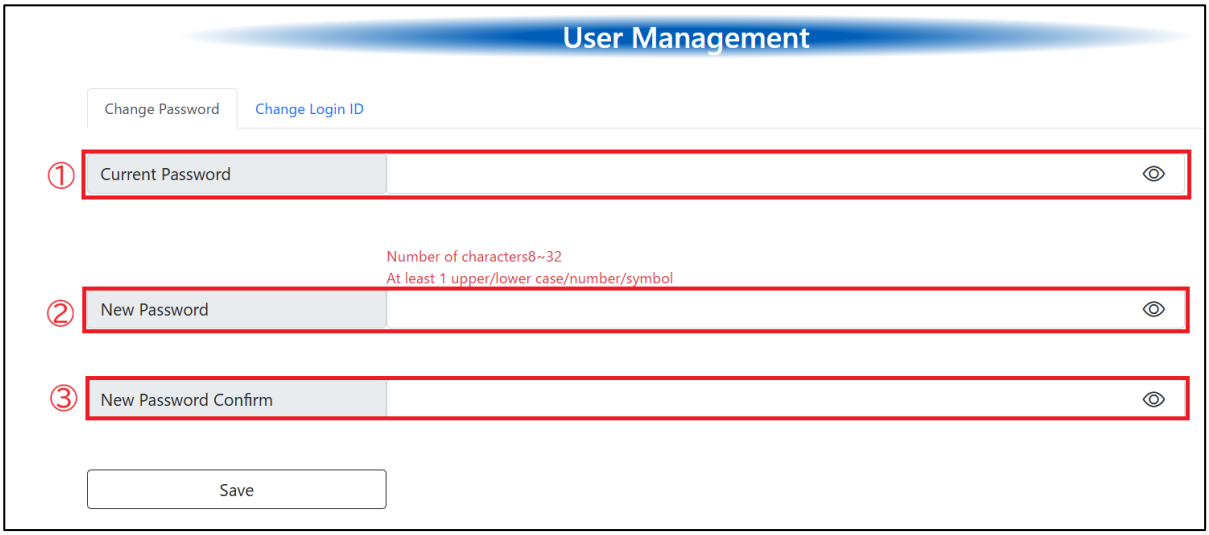


Figure number	Item Name	Configuration details
①	Current Password	Enter the password you currently set.
②	New Password	Enter your new password.
③	New Password Confirm	Re-enter your new password to confirm.

The password must be between 8 and 32 characters,
and contain at least one uppercase letter, one lowercase letter, one number, and one symbol.

When you are finished, click the "Save" button to save the settings.

You will be prompted to log in again, so click "OK" to log in again with the new password you set.

Please

You must be logged in to make settings changes in the Software.
Therefore, please do not forget the information of the changed password.

16-2 Change Login ID

Change the login ID of the registered user.

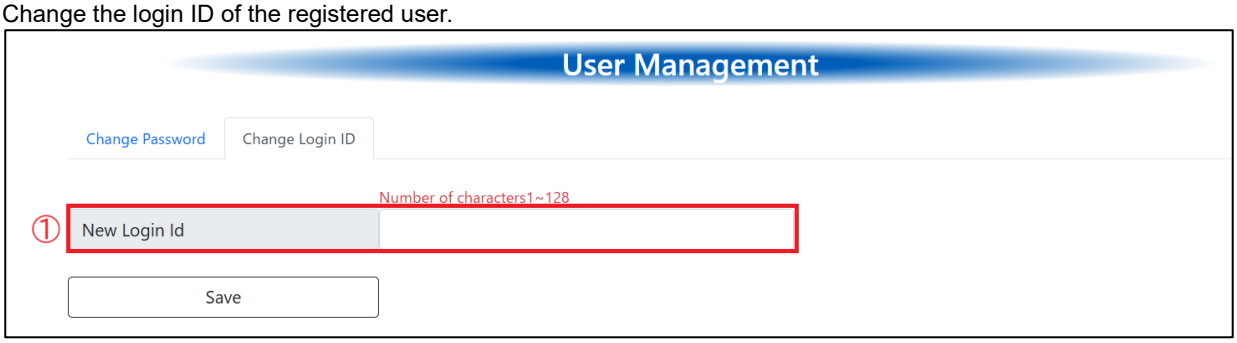


Figure number	Item Name	Configuration details
①	New Login Id	Enter your new login ID.

The login ID must be between 1 and 128 characters.

When you finish, click the "Save" button to save the settings.

You will see a confirmation message for the login ID change, click Yes.
You will be prompted to log in again, so click "OK" to log in again with the new password you set.

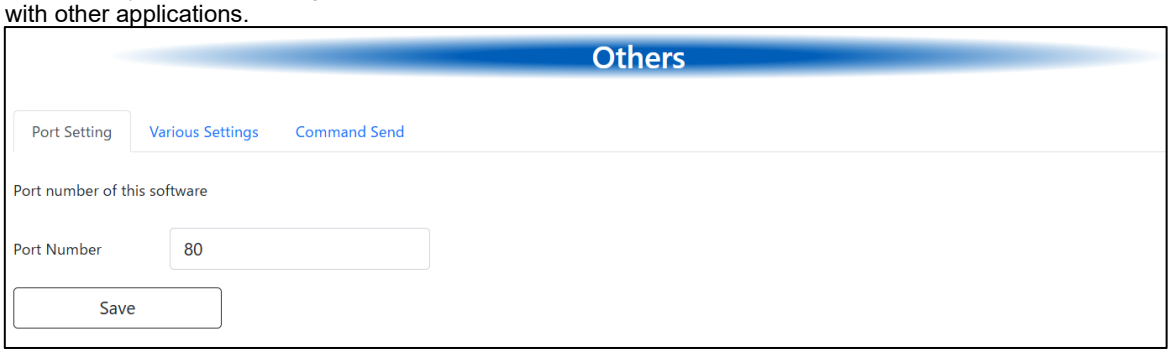
Please

You must be logged in to make settings changes in the Software.
Therefore, please do not forget to manage the login ID information that you have changed.

17. Other settings

17-1 Set port numbers

The HTTP port number used for displaying the screen of the Software is set at the time of installation, but it is used when you want to change the HTTP port number to a different HTTP port number because it conflicts with other applications.



The Port Number shows the HTTP port number that you set during installation (the HTTP port number you are currently using). Change the HTTP port number and click the Save button.

Note

・After changing the port number, please restart the system until the changes are restarted.

17-2 Various settings

Configure the display of the countdown pop-up that appears during the shutdown.

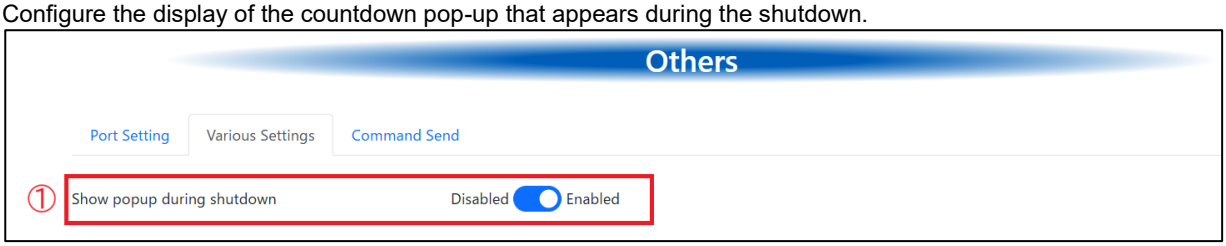
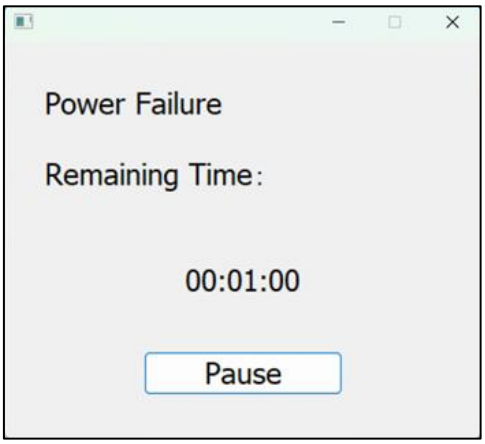
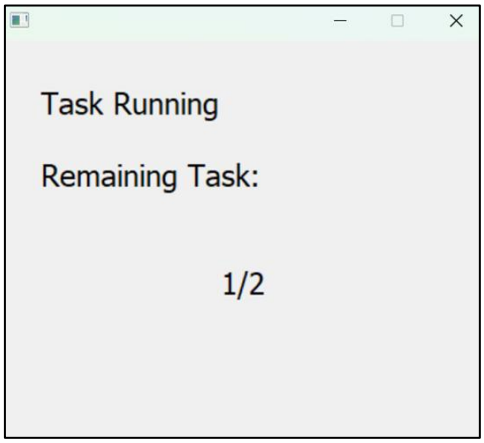


Figure number	Item Name	Configuration details
①	Show popup during shutdown	Toggle the switch to "Enable" if you want to show the popup during shutdown, or "Disable" if you want to hide it.

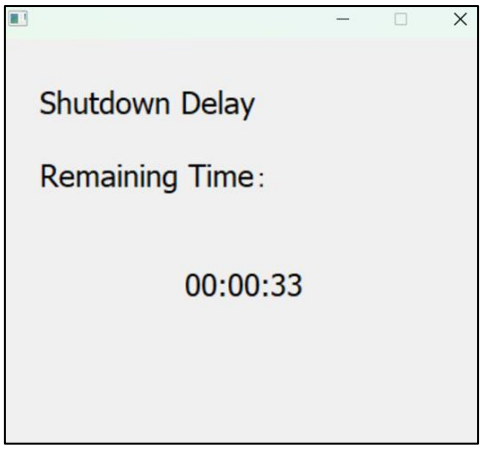
Power Failure
The remaining time of the wait time set in the shutdown parameter is displayed.



Task Running
Displays the number of tasks remaining for the running tasks set in the Smart Task.
If you have not set up a task, it will not appear.



Shutdown Delay
Displays the remaining time of the pre-execution wait time set in the Smart Task Shutdown Delay.
It will not be displayed if it is set to 0 seconds.



17-3 Send a command

Send commands directly to your UPS.

Please

Please use it if you are instructed by Customer Support, etc.

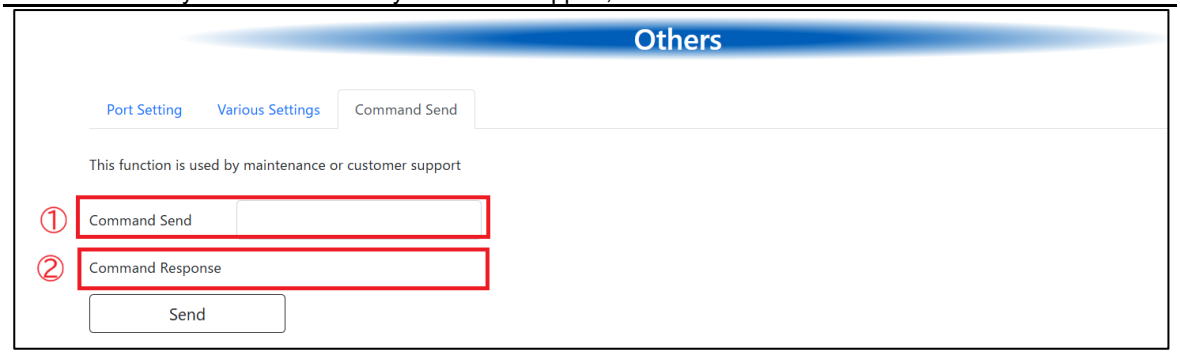


Figure number	Item Name	Configuration details
①	Command Send	Enter the UPS command and click the "Send" button.
②	Command Response	You will see a response from UPS.

18. Importing and exporting configuration files

You can export the configuration information of this software as an external file or import the exported file.
It can be used to save configuration information, copy configuration information to the Software installed on another computer, etc.

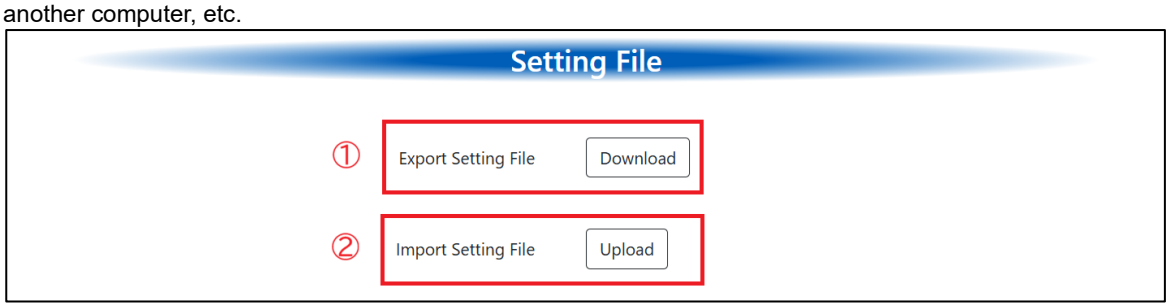


Figure number	Item Name	Configuration details
①	Export Setting File	Click Download to export the configuration information.
②	Import Setting File	Click Upload to import the configuration information.

19. Check the version information

Displays information about the software, connected UPS, usage environment, etc.

19-1 About PowerAttendant

Displays information about the Software you have installed.

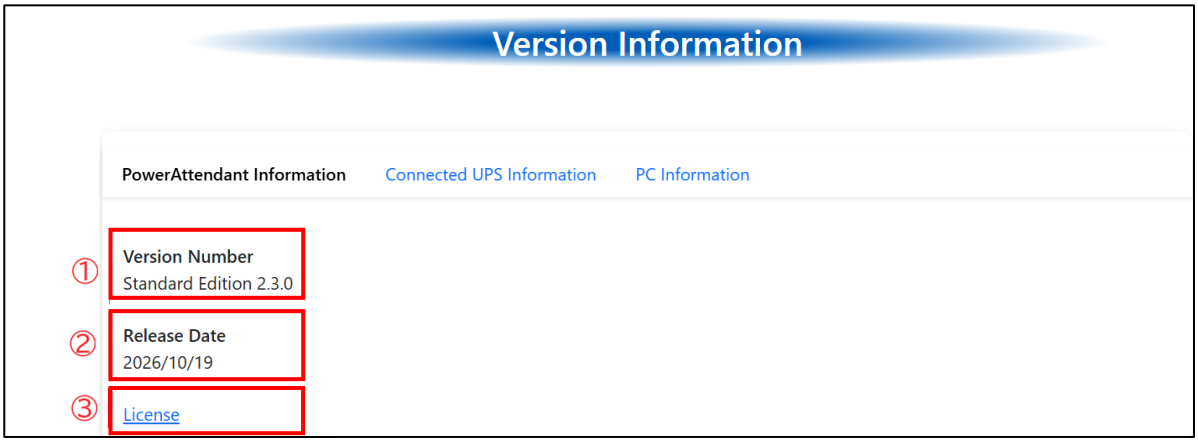


Figure number	Item Name	Display content
①	Version Number	Versions of the Software.
②	Release Date	Software release date.
③	License	Click License to view information about the open source used in the Software.

19-2 UPS Information

Displays information about the connected UPS.

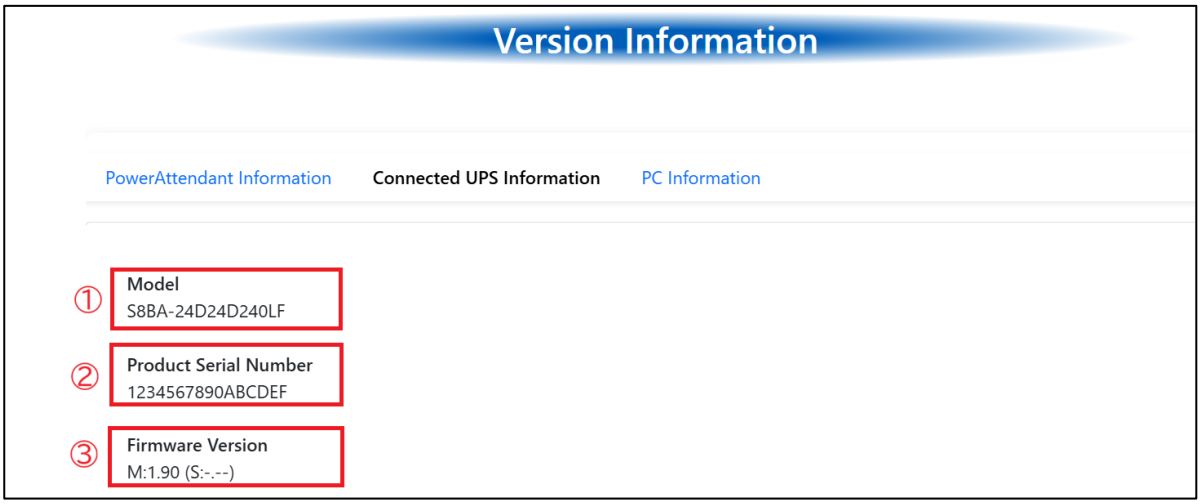


Figure number	Item Name	Display content
①	Model	The type of UPS you are connecting.
②	Product Serial Number	The serial number of the UPS you are connected to.
③	Firmware version	The firmware version of the UPS you are connected to.

19-3 About PC

Displays information about the computer on which the Software is installed.

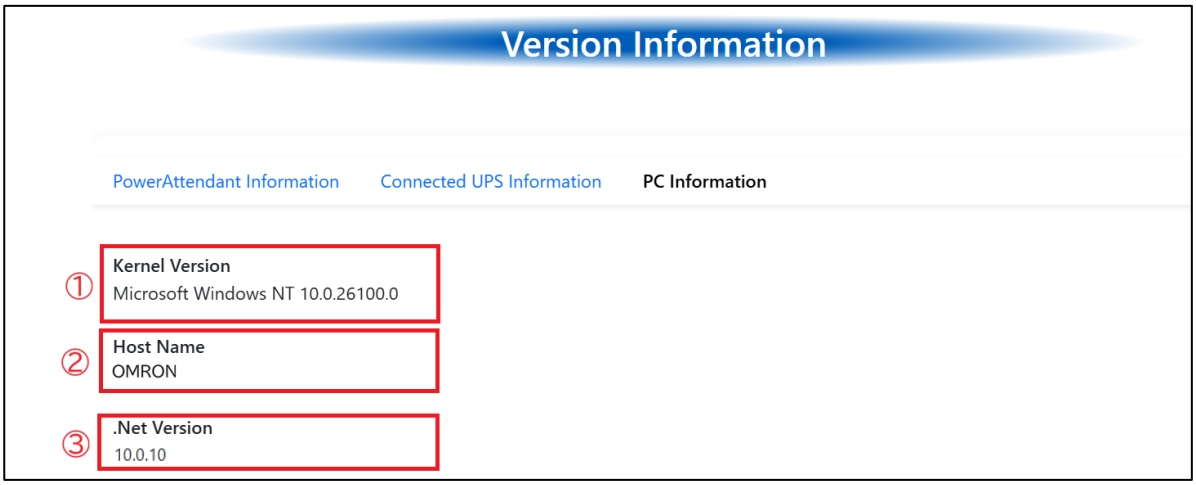


Figure number	Item Name	Display content
①	Kernel Version	Kernel version. Not the OS version. *The kernel is the software that plays the role of the basic function of OS.
②	Host Name	Hostname.
③	.NET Version	It is installed .NET version.

20. Uninstall software

This section describes the procedure for uninstalling the software.

Please

If you use other shutdown software, be sure to uninstall this software.
If the Software remains installed, the UPS may not be recognized properly.

20-1 Before uninstalling

Log in to your computer with a username with ROOT permissions.
- Quit other applications that are running.

20-2 Uninstalling the Software

In the case of RHEL8.X series, RHEL9.X series, RHEL10.X series

1. Open the terminal screen and enter the following command:

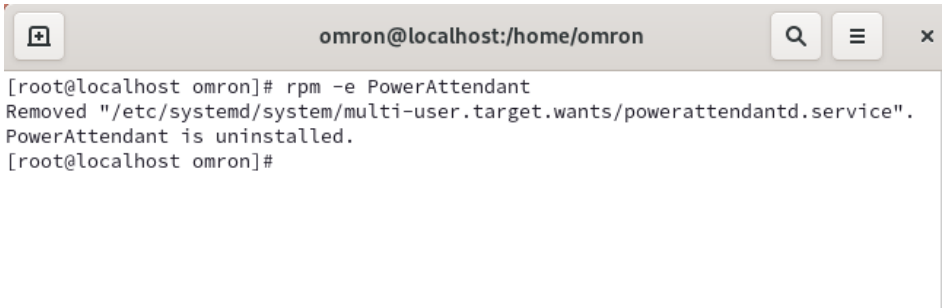
In the case of RHEL8. X series, RHEL9.X series

```
rpm -e PowerAttendant
```

In the case of RHEL10.X series

```
sudo rpm -e PowerAttendant
```

2. If you see the following display, the uninstallation is complete.

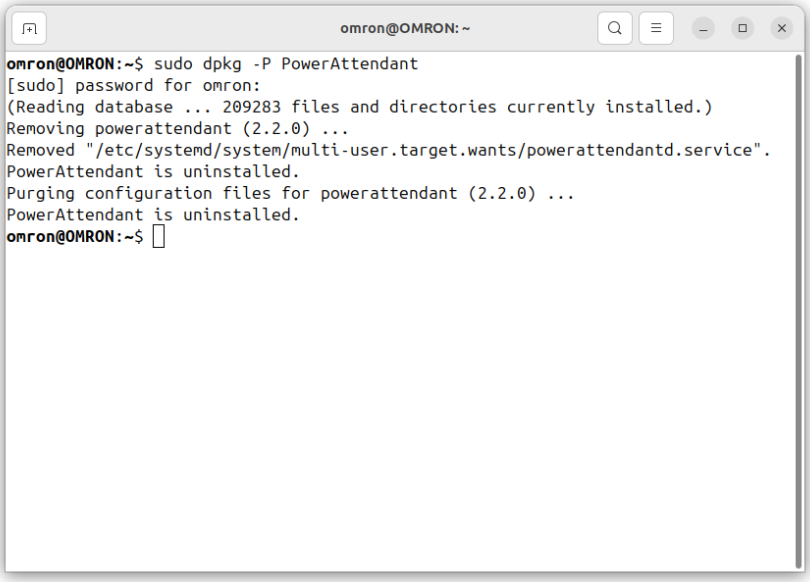


On Ubuntu

1. Open the terminal screen and enter the following command:

sudo dpkg -P PowerAttendant

2. If you see the following display, the uninstallation is complete.



Close the terminal screen.

This concludes the uninstallation procedure for this software.

Appendix

This section explains how to check the cause of the problem and how to deal with it.

21. Troubleshooting..... 113

21. Troubleshooting

Phenomenon	Causes	Countermeasures
An error message was displayed when installing the software.	I installed this software before installing .NET.	• If the installation is complete, .NET and then restart your computer. • If you still cannot start the software, uninstall the software and then reinstall it.
The federated shutdown function does not work.	Communication settings are not enabled. The port numbers are different. The LAN cable is disconnected.	• If you want to work with a primary, communication must be enabled on both the primary and secondary. Make sure that "Communication with Secondary" on the primary side and "Communication with Primary" on the secondary side are "Enabled". • Make sure that the primary and the secondary have the same port number. • Make sure that the LAN cable between the primary and the secondary is connected. • Firewall settings are required on both primary and secondary computers so that communication can be done with the set port number. Make sure to configure it to communicate with the port number you set.
It does not respond even if you click the settings button on the first login after installation.	Your browser is not supported.	• Please check whether the browser you are using is a compatible browser.
I can't receive emails even after running a "send test".	The email failed to be sent because it could not connect to the SMTP server.	If the email fails to be sent, the message "Mail server authentication failed" is displayed. In this case, check the following: • Is the email setting content incorrect? • Is the LAN cable of the computer on which the software is installed disconnected? - Is there a failure in the email service you use?

Note: Do not use this document to operate the Unit.

OMRON Corporation Industrial Automation Company

Kyoto, JAPAN

Contact : www.ia.omron.com

Regional Headquarters

OMRON EUROPE B.V.
Wegalaan 67-69, 2132 JD Hoofddorp
The Netherlands
Tel: (31) 2356-81-300 Fax: (31) 2356-81-388

OMRON ELECTRONICS LLC
2895 Greenspoint Parkway, Suite 200
Hoffman Estates, IL 60169 U.S.A.
Tel: (1) 847-843-7900 Fax: (1) 847-843-7787

OMRON ASIA PACIFIC PTE. LTD.
438B Alexandra Road, #08-01/02 Alexandra
Technopark, Singapore 119968
Tel: (65) 6835-3011 Fax: (65) 6835-3011

OMRON (CHINA) CO., LTD.
Room 2211, Bank of China Tower,
200 Yin Cheng Zhong Road,
PuDong New Area, Shanghai, 200120, China
Tel: (86) 21-6023-0333 Fax: (86) 21-5037-2388

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