

Integration of PowerChute Serial Shutdown with EcoStruxure IT

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Introduction

PowerChute™ Serial Shutdown Agents can integrate with EcoStruxure™ IT so that PowerChute Agents and their UPS devices can be managed in the same way as your other IT infrastructure. Once you have purchased a Service Contract, EcoStruxure IT can help monitor and manage all your IT infrastructure. This document gives step-by-step details on how to connect a PowerChute Agent (v9.5 or later) to EcoStruxure IT using the EcoStruxure IT Gateway.

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Step 1: Install PowerChute Serial Shutdown

Download PowerChute Serial Shutdown from the [APC website](#) and follow the instructions detailed in the *Installation Guide* on how to install PowerChute.

Step 2: Install EcoStruxure IT Gateway

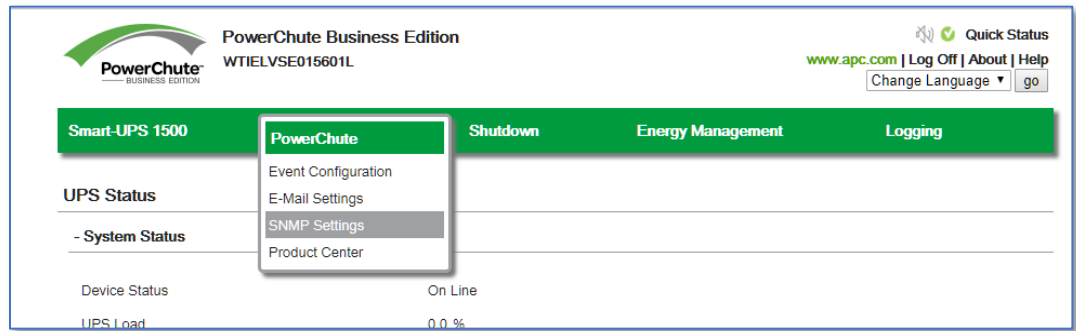
Download the EcoStruxure IT Gateway from the [EcoStruxure IT website](#). Follow the installation instructions detailed in the [Initial installation and setup guide](#).

NOTE: The EcoStruxure IT Gateway must be installed on a network configured so Simple Network Management Protocol (SNMP) traffic is permitted between the EcoStruxure IT Gateway and the PowerChute Agents. This may require configuring firewalls and routers to allow SNMP traffic.

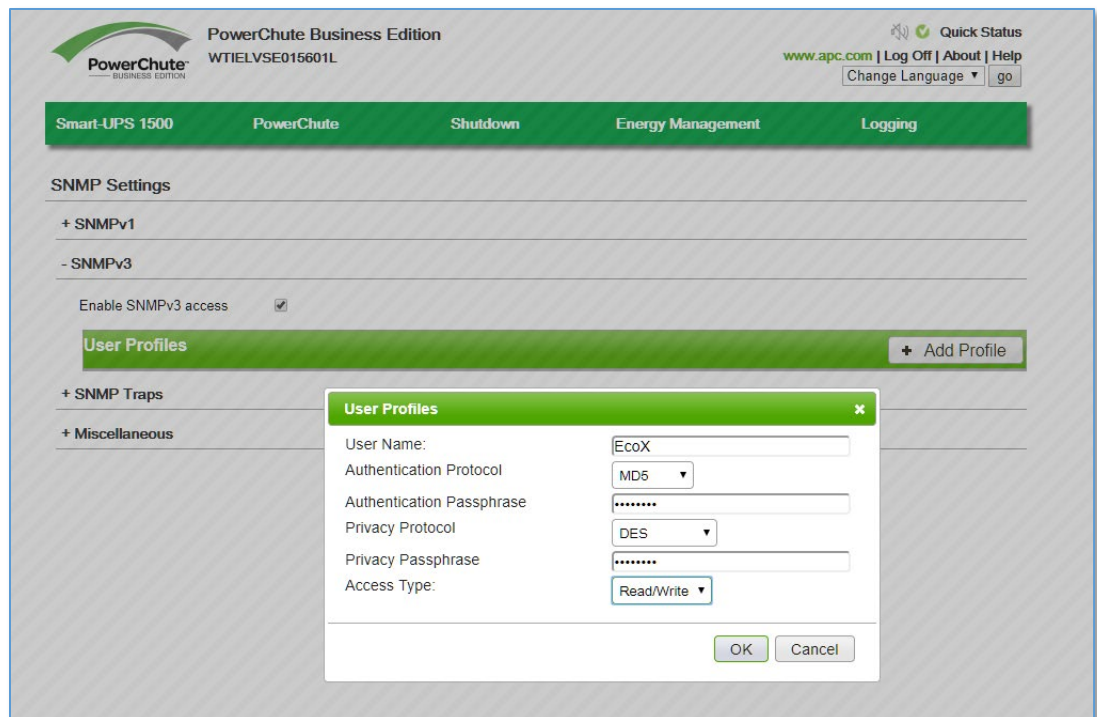
Step 3: Configure SNMP in PowerChute

EcoStruxure IT uses SNMP to communicate with the PowerChute Agents. SNMP is a networking protocol that allows EcoStruxure IT to query PowerChute settings and configurations. SNMP is not enabled by default, and it must be configured in PowerChute to communicate with EcoStruxure IT.

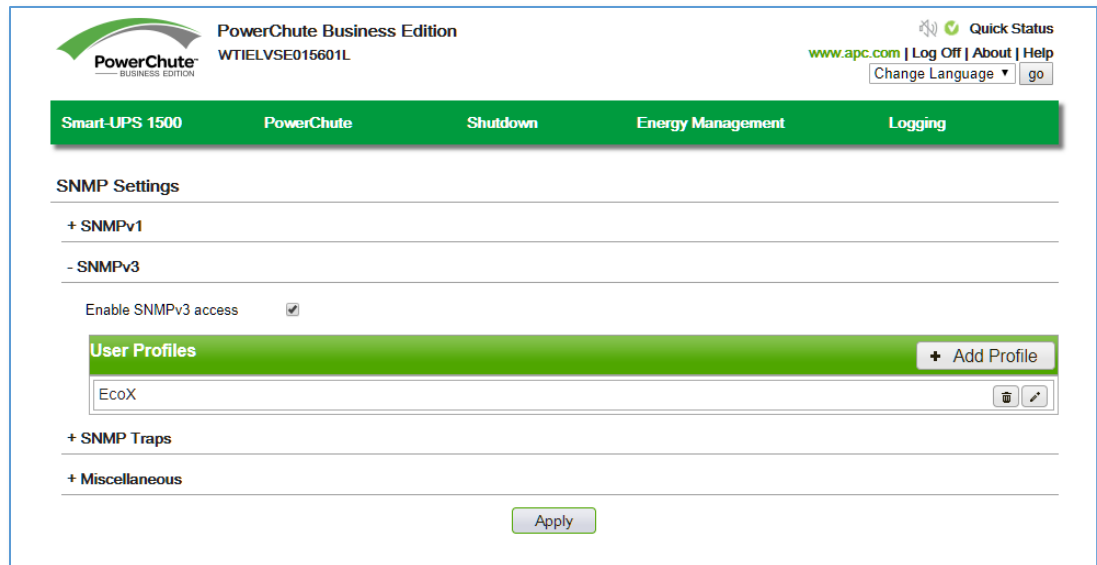
1. Log in to PowerChute and navigate to the **SNMP Settings** screen.



2. Select **Enable SNMPv3 access** to configure the SNMP3 settings, and select **Add Profile**. For more information on configuring SNMP, see the PowerChute *User Guide* available on the [APC website](http://www.apc.com).
NOTE: SNMPv1 access is also available, but SNMPv1 is less secure than SNMPv3. It is recommended you use SNMPv3 as SNMPv3 provides encryption and authentication.



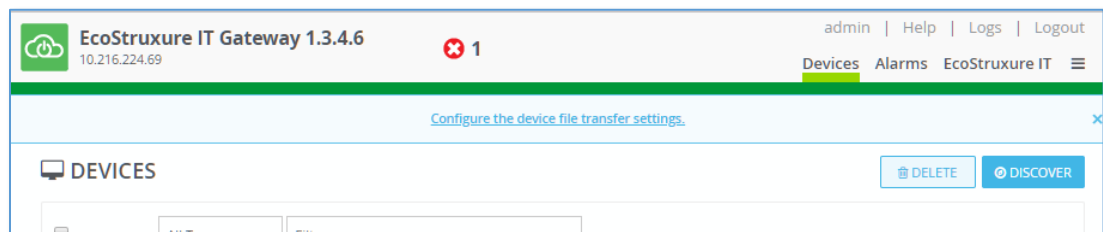
3. Click **Apply** to save the SNMPv3 configuration.
NOTE: The SNMP Port can be configured in the **Miscellaneous** section if the port used conflicts with other applications.



The screenshot shows the PowerChute Business Edition web interface. At the top, there's a header with the PowerChute logo, the text "PowerChute Business Edition WTIELVSE015601L", and links for "www.apc.com", "Log Off", "About", "Help", and "Change Language". Below the header is a green navigation bar with tabs: "Smart-UPS 1500", "PowerChute", "Shutdown", "Energy Management", and "Logging". The main content area is titled "SNMP Settings". It has expandable sections for "+ SNMPv1", "- SNMPv3", "+ SNMP Traps", and "+ Miscellaneous". Under the "- SNMPv3" section, there is a checkbox labeled "Enable SNMPv3 access" which is checked. Below this is a "User Profiles" section with a green header and a "+ Add Profile" button. A profile named "EcoX" is listed with delete and edit icons. At the bottom right of the main content area is an "Apply" button.

Step 4: Discover PowerChute in the EcoStruxure IT Gateway

1. Open the EcoStruxure IT Gateway and select **Devices > Discover**.

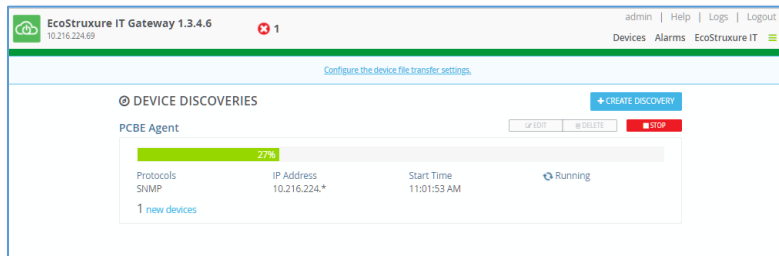


2. Create a new **Device Discovery** for PowerChute. Add the SNMP profile configured in PowerChute in [Step 3](#). Multiple PowerChute Agents can be discovered at once if the same SNMP User Profile is configured on all Agents. Alternatively, multiple Device Discoveries can be created, with different IP addresses or SNMP profiles. Click **RUN** to start the discovery.

The screenshot shows a web-based configuration window titled "Configure the device file transfer settings" with a close button (X) in the top right corner. The window is divided into several sections:

- DEVICE DISCOVERY**:
 - Name**: A text input field containing "PCBE Agent".
 - Protocol Selection**: Three radio buttons labeled "Standard", "Advanced", and "Modbus". "Standard" is selected.
 - IP OR IP ADDRESS RANGE**:
 - Instructions: "Use an asterisk to search an entire subnet: 192.168.1.*" and "Use a dash to search a range of IP addresses: 192.168.1.100-254".
 - IP address**: A text input field containing "10.216.224.*".
 - + Add another**: A blue link to add more IP addresses.
- PROTOCOLS**:
 - SNMP**: A checkbox that is checked. A "NetBotz" checkbox is also present but unchecked.
 - SNMPv3**: Two radio buttons labeled "SNMPv1" and "SNMPv3". "SNMPv3" is selected.
 - Username**: A text input field containing "EcoX".
 - Authentication type**: A dropdown menu with "MD5" selected.
 - Authentication password**: A text input field with masked characters (dots).
 - Confirm authentication password**: A text input field with masked characters (dots).
 - Encryption type**: A dropdown menu with "DES" selected.
 - Encryption password**: A text input field with masked characters (dots).
 - Confirm encryption password**: A text input field with masked characters (dots).
 - Port**: A text input field containing "161".
- Buttons**: At the bottom, there are two buttons: "RUN" (highlighted in blue) and "CANCEL".

3. The Discovery will run and find the configured PowerChute Agent.

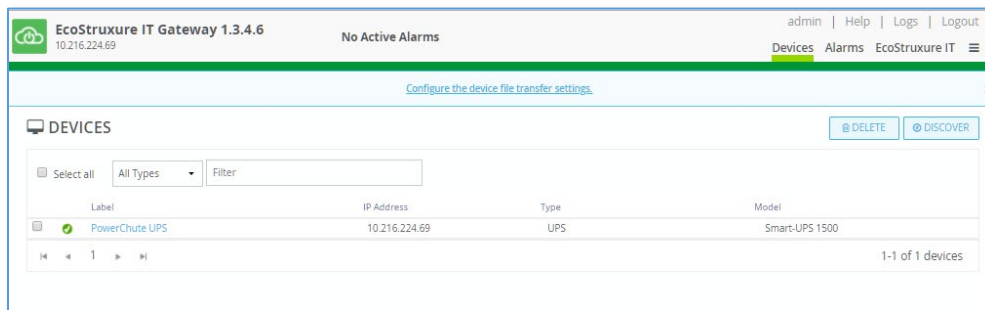


NOTE: The PowerChute Event Log will log two failed SNMP connections and one successful connection. The failed SNMP connection logs can be ignored as these are a result of the EcoStruxure IT Gateway detecting the presence of the PowerChute Agent.

Step 5: PowerChute Agent is connected to the EcoStruxure IT Gateway

The PowerChute Agent will display in the EcoStruxure IT Gateway under **Devices**.

NOTE: For PowerChute v9.5 and below, the **Label** field may be blank.



Opening the device will display the information EcoStruxure IT is logging from the PowerChute Agent via SNMP.

NOTE: The information displayed will depend on your UPS model.

EcoStruxure IT Gateway 1.3.4.6
10.216.224.69 No Active Alarms

Devices Alarms EcoStruxure IT

[Configure the device file transfer settings.](#)

POWERCHUTE UPS - 10.216.224.69
UPS - Smart-UPS 1500

DETAILS

Manufacturer APC	PCBE Host Name WTIELVSE015601L	PCBE Java Version 10.0.1 Oracle Corporation	PCBE Version 10.0.0.301
Serial Number AS1108110028	UPS Name Nelson Oliveira	ddfVersion 1.3.4.6	type PowerChute

COMMUNICATION

IP Address 10.216.224.69	Protocols SNMP	Last Poll Time June 26, 2018 11:09:06 AM
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DEVICES

Label	Type
Mancienne1	Outlet Group
Vaughan	Outlet Group

1-2 of 2 devices

BATTERY STATUS

Sensor	Current Value
Battery Age	4.29 years
Battery Capacity	100 %
Battery Replacement Status	OK
Battery Temperature	29 °C
Battery Time Remaining	5.58 h
Battery Voltage	27 V
Number of External Battery Packs	0
Runtime Calibration Status	OK
Self-Test Status	OK
Time Running on Battery	0 ms

INPUT STATUS

Sensor	Current Value
Input Frequency	49 Hz
Input Voltage	237 V

OTHER

Sensor	Current Value
PCBE Upgrade Available	No
UPS Age	6 years
UPS Comm Status	Online

OUTLET STATUS

Sensor	Current Value
Outlet State 1 - Vaughan	On
Outlet State 2 - Mancienne1	On

OUTPUT STATUS

Sensor	Current Value
Output Frequency	49 Hz
Output Voltage	23.9 V
Total Output Percent Load	0 %
UPS Operation Mode	Online

Now that the PowerChute Agent is connected to the EcoStruxure IT Gateway, the PowerChute Agent can be managed along with other IT devices being managed by EcoStruxure IT.