

APC PowerChute Extensions for IBM Director

Overview

APC® PowerChute® Extensions for IBM® Director enables you to manage your APC systems to realize maximum system availability and help lower IT costs. Integration with IBM Director means you can work with different systems with a familiar, consistent, and single point of management.

As an extension to IBM Director, PowerChute Extensions discovers APC agents and UPS devices that support SNMP, specifically both **PowerChute Business Edition (PCBE) Agents** on Windows® and **UPS Network Management Cards (NMC)**.

After discovering supported APC agents and devices, APC PowerChute Extensions creates a group in IBM Director called **Systems with APC Extensions**, which displays the devices and agents.

APC PowerChute Extensions provides several task extensions which enable the collection and utilization of data and events from UPSs, the physical environment, and power sources:

1. The **APC UPS Browser** task provides access to the Web user interfaces of the APC devices and agents. This enables configuration and diagnosis.
2. The **Inventory** task reports information about the physical APC UPS device.
3. The **Resource Monitors** task provides real-time power and environmental data.
4. **Event Action Plans** recognizes new power and environment events for filtering.

Features

Features and Benefits of PowerChute Extensions for IBM Director

Integration of APC agents and UPS devices with the IBM Director Console	<p>You can communicate with and monitor your systems' UPSs on the network and obtain advance notice on critical elements of server power management, such as UPS battery status, load level, and alarms for battery replacement.</p> <p>You can launch the Web pages for PCBE Agents and the UPS NMC from within the IBM Director Console.</p> <p>You can use the IBM Director Console user interface to maximize availability.</p>
UPS Inventory Management	<p>You can query your UPS inventory network-wide.</p> <p>You can create reports on UPS data, such as location, serial numbers.</p>
UPS event and alarm management	<p>You can send e-mail, and initiate SNMP traps which are triggered by UPS events.</p>
SNMP SET and GET	<p>You can control and manage the UPSs on the network using SNMP.</p>
SNMP trap forwarding	<p>You can forward SNMP traps to other network management systems.</p>
One log for all UPS events	<p>You can log all or some UPS events on your network in one IBM Director log.</p>

System Requirements

APC PowerChute Extensions Requirements

PowerChute Extensions for IBM Director, version 2.0, is compatible with the following:

- IBM Director version 5.10 (Update Pack 1)
- PowerChute Business Edition version 7.0.4a, where the Agent is running on Windows
- UPS Network Management Card (AP9617, AP9618, AP9619), application firmware version 2.6.1 or later, AOS version 2.6.4 or later.

IBM Director and Operating Systems Requirements

IBM Director Server is supported on the following operating systems:

- Red Hat[®] Enterprise Linux[®] AS and ES, version 3.0 and 4.0
- SUSE[™] Linux Enterprise Server 8 for x86, Server 9 for x86
- Microsoft[®] Windows[®] 2000, Advanced Server and Server Editions
- Windows Server 2003, Enterprise, Standard, and Web Editions

IBM Director Console is supported on the following operating systems:

- Red Hat Enterprise Linux AS and ES, version 3.0, version 4.0
- SUSE Linux Enterprise Server 8 for x86, Server 9 for x86
- Windows 2000, Advanced Server, Professional, and Server Editions
- Windows XP Professional Edition, SP2
- Windows Server 2003, Enterprise, Standard, and Web Editions

Other System Requirements and Configurations

- The **PowerChute Business Edition Agent** machine which will communicate with PowerChute Extensions for IBM Director must have the Microsoft SNMP Service running.

In addition, the SNMP Service on that PCBE Agent machine must forward all traps to the IP address of the IBM Director Server machine.

- Your **UPS NMC** must have a community name that specifies **Write +**. You can set this up by accessing the NMC through a serial port or by using its Web page user interface.

You must additionally configure your UPS NMC by adding the IP address of the IBM Director Server machine as a trap destination with the appropriate community name specified.

- The machine running **IBM Director Console** must have a **Java-enabled Web browser** (Java[™] version 1.4.2 or later).

Installation

PowerChute Extensions for IBM Director must be installed on the machine running **IBM Director Server** and on each machine running **IBM Director Console**.

PowerChute Extensions will not install unless the IBM Director components are already installed.

You can download APC PowerChute Extensions for IBM Director from the APC Web site: <http://www.apc.com>. Search for `PowerChute Extensions` to access the correct page.

After you have downloaded, double-click on `install.exe` for a Windows installation and on `install.sh` for a Linux installation. Follow the on-screen prompts.

See the online help in the IBM Director Console for further information on using PowerChute Extensions, under the index letter **P**.

Troubleshooting

Problem

The **SNMP Browser** task is not displaying the full set of SNMP OIDs (Object ID) for PCBE Agent.

Solution

Follow these steps:

1. Locate `SNMPBrowser.properties` on your IBM Director Server machine:
[Windows] `C:\Program Files\IBM\Director\data\snmp`
[Linux] `/opt/ibm/director/data/snmp`
2. Add the following line to `SNMPBrowser.properties`:
`snmp.walk.oid.<n>=1.3.6.1.4.1.318`
where `<n>` is the next available and unique index number in the file.
3. Restart your IBM Director Server.



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 - **www.apc.com/support/**
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