

## FAQ Contents

1. [What are Powerware Extensions for IBM Director?](#)
2. [How can I obtain a copy of the Powerware Extensions for IBM Director software?](#)
3. [What versions of IBM Director are supported?](#)
4. [What will I need to run this software? What are the system requirements?](#)
5. [What are the features and benefits of this product?](#)
6. [What does the User Interface look like for this product?](#)
7. [How much does this software cost?](#)
8. [Where can I get more information on this software?](#)

### 1. What are Powerware Extensions for IBM Director?

Powerware Extensions for IBM Director provide seamless integration of Powerware uninterruptible power systems (UPSs) into the Director management system. As a part of Powerware's comprehensive family of power management applications, the Extensions for IBM Director simplify network management tasks for critical elements of server power protection. System administrators can easily monitor, diagnose, configure, set alarms, schedule self-tests, check battery, gather inventory information, and control Powerware UPSs network-wide from a single console within IBM Director.

With Powerware Extensions, users can simply double-click the icons for UPSs integrated into the Director interface, and launch Powerware's LanSafe or ConnectUPS SNMP/Web Card applications. All the powerful features and functions of these Powerware award-winning applications are now just a click away through IBM Director.

### 2. How can I obtain a copy of the Powerware Extensions for IBM Director software?

Powerware Extensions for IBM Director software is available for download at Powerware's Web site:

<http://www.powerware.com/software/downloads.asp>

To use this site, select the product you want to download. Fill in your registration information and continue to the actual download area.

After downloading, follow the installation and configuration instructions in the User Guide.

### **3. What versions of IBM Director are supported?**

Powerware Extensions for IBM Director software is available for both IBM Director 3.1 and IBM Director 4.1. The two software products are not interchangeable.

### **4. What will I need to run this software? What are the system requirements?**

IBM Director 3.1 or above must be installed in accordance with IBM requirements and procedures.

#### **Requirements for the Director Server Computer**

- Microsoft SNMP Service installed and running
- Microsoft SNMP Trap Service stopped
- Microsoft SNMP Trap Service set to Disabled or Manual
- Computer is configured to discover SNMP devices
- To monitor LanSafe systems, LanSafe must be installed

#### **Requirements for the Director Console Computer**

- Microsoft SNMP Service installed and running
- To monitor LanSafe systems, LanSafe must be installed

#### **Requirements for LanSafe Systems**

- For IBM Director 3.1 – LanSafe III, v. 4.17 3a or higher is recommended
- For IBM Director 4.1 – LanSafe 5 is required
- Configure system to forward SNMP traps to the Director Server

#### **Requirements for ConnectUPS SNMP/Web Card Systems**

- A web browser must be installed on the computer that will monitor and control the UPS
- For computer shutdown, install NetWatch Clients 4.01 software available from [www.powerware.com](http://www.powerware.com)

Configure the ConnectUPS-X Web/SNMP Card for read/write access and trap forwarding as follows:

1. Set "Write Access Managers" to include the Director Server
2. Set "Trap Receivers" to include the Director Server

### SUPPORTED OPERATING SYSTEMS

| IBM Director Server                    | Powerware Extensions for IBM Director 3.1 | Powerware Extensions for IBM Director 4.1 |
|--|---|---|
| Microsoft Windows NT 4.0 Server        | x   |   |
| Microsoft Windows NT 4.0 Enterprise    | x   |   |
| Microsoft Windows 2000 Server          | x   | x   |
| Microsoft Windows 2000 Advanced Server | x   | x   |

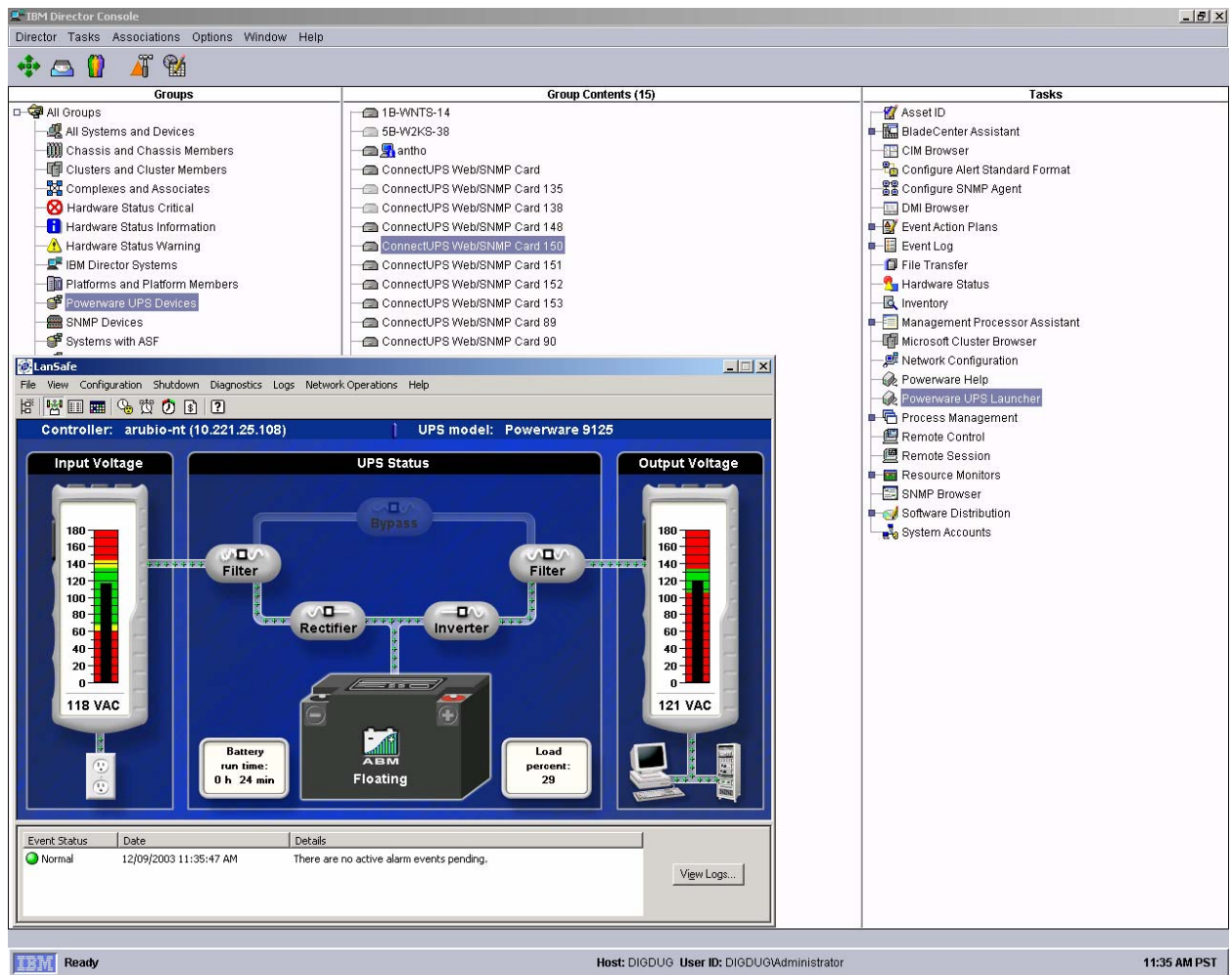
| IBM Director Console                   | Powerware Extensions for IBM Director 3.1 | Powerware Extensions for IBM Director 4.1 |
|--|---|---|
| Microsoft Windows NT 4.0 Server        | x   |   |
| Microsoft Windows NT 4.0 Enterprise    | x   |   |
| Microsoft Windows NT 4.0 Workstation   | x   |   |
| Microsoft Windows 98                   | x   |   |
| Microsoft Windows 98 SE                | x   |   |
| Microsoft Windows XP Professional      | x   | x   |
| Microsoft Windows 2000 Server          | x   | x   |
| Microsoft Windows 2000 Professional    | x   | x   |
| Microsoft Windows 2000 Advanced Server | x   | x   |

### 5. What are the features and benefits of this product?

| FEATURE  | BENEFIT   |
|--|---|
| <b>Seamless integration of UPSs into the IBM Director Management Console</b> | <ul style="list-style-type: none"> <li>• Allows administrators to monitor UPSs in the network, in real-time and obtain advance notice on critical elements of server power management, such as UPS battery status, load level, temperature and alarms for battery replacement.</li> <li>• Launch LanSafe and SNMP/Web Card UPS applications from within Director.</li> <li>• Enables maximum systems availability through the IBM Director User Interface.</li> </ul> |
| <b>UPS Inventory management</b>  | <ul style="list-style-type: none"> <li>• Perform UPS inventory queries network-wide.</li> <li>• Create custom reports on UPS locations, models, serial numbers, firmware versions, equipment attached to UPSs, and other details.</li> </ul>  |
| <b>UPS event and alarm management</b>  | <ul style="list-style-type: none"> <li>• Start programs, send email and messages to pagers, log to file, send to newsgroup, and initiate SNMP traps triggered by UPS event changes.</li> </ul>  |
| <b>UPS Load Segment control</b>  | <ul style="list-style-type: none"> <li>• Control UPS Load Segments – individual receptacle groups.</li> <li>• Increase runtime by up to 50% on mission-critical loads. Switch different UPS loads on and off at predefined times or power failure situations.</li> </ul>  |
| <b>UPS reboot and scheduled shutdown</b>                                     | <ul style="list-style-type: none"> <li>• Command UPSs to reboot specific computer systems or internetworking devices either locally or remotely over the network.</li> <li>• Initiate scheduled shutdown/reboot tasks with integrated UPS applications.</li> </ul>  |
| <b>Network-wide UPS battery test</b>   | <ul style="list-style-type: none"> <li>• Test battery health for all UPSs throughout the network.</li> </ul>  |
| <b>Standard RFC1628.MIB and PowerMIB XUPS.MIB support</b>                    | <ul style="list-style-type: none"> <li>• Compatible with the industry standard RFC1628 UPS MIB.</li> <li>• Powerware proprietary XUPS.MIB is provided for extra functionality like e.g. load segment control.</li> </ul>  |
| <b>SNMP “GET” and “SET” commands support</b>                                 | <ul style="list-style-type: none"> <li>• Control and manage the UPSs on the network via SNMP with the SNMP “GET” and “SET” commands.</li> </ul>   |

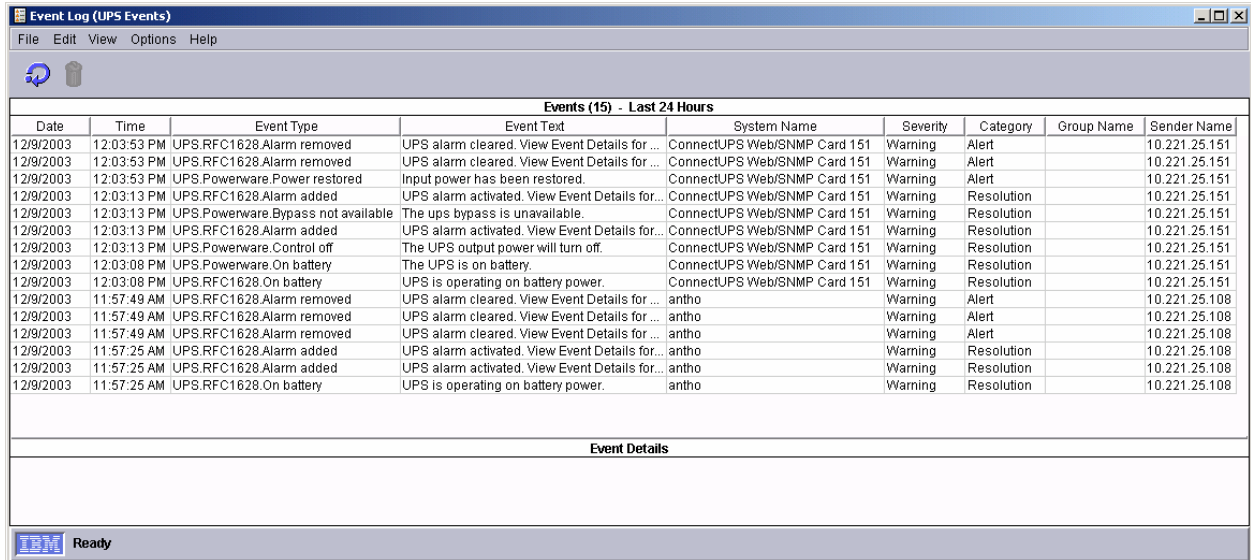
|   |   |
|---|---|
| <b>SNMP Trap forwarding support</b>         | <ul style="list-style-type: none"> <li>Forward SNMP Traps from IBM Director to other Network Management Systems.</li> </ul>   |
| <b>Central log for UPS events</b>           | <ul style="list-style-type: none"> <li>Log all or only predefined UPS events network-wide in a central IBM Director log.</li> </ul>   |
| <b>IBM Director Upward Integration</b>      | <ul style="list-style-type: none"> <li>Can be integrated with robust workgroup and enterprise management software from IBM (such as Tivoli®), Computer Associates, Hewlett-Packard, Microsoft, NetIQ and BCM Software.</li> </ul> |
| <b>IBM Server Proven Certified solution</b> | <ul style="list-style-type: none"> <li>Fulfills IBM Certification criteria.</li> <li>Ensures compatibility with IBM Director solutions.</li> </ul>  |

## 6. What does the User Interface look like for this product?



The screenshot displays the IBM Director Console interface with the Powerware Extensions installed. The main window shows a detailed view of a Powerware 9125 UPS system. The interface includes a navigation pane on the left with 'Groups' and 'Group Contents (15)' sections. The 'Group Contents' section lists various components like '1B-WNTS-14', '5B-W2KS-38', and multiple 'ConnectUPS Web/SNMP Card' entries. The 'Tasks' pane on the right lists various management tasks, including 'Powerware UPS Launcher'. The central area shows a graphical representation of the UPS system with 'Input Voltage' (118 VAC), 'UPS Status' (Bypass, Rectifier, Inverter, Filter, and Battery run time: 0 h 24 min), and 'Output Voltage' (121 VAC). Below the graphical view, there is an 'Event Status' table showing a 'Normal' status on 12/09/2003 at 11:35:47 AM. The bottom status bar indicates 'Ready', 'Host: DIGDUG', 'User ID: DIGDUG\Administrator', and the time '11:35 AM PST'.

IBM Director Console (4.1) with Powerware Extensions installed. LanSafe 5 also shown.



| Events (15) - Last 24 Hours |             |                                    |  |                              |          |            |            |               |  |
|-----------------------------|-------------|------------------------------------|--|------------------------------|----------|------------|------------|---------------|--|
| Date                        | Time        | Event Type                         | Event Text                                     | System Name                  | Severity | Category   | Group Name | Sender Name   |  |
| 12/9/2003                   | 12:03:53 PM | UPS.RFC1628.Alarm removed          | UPS alarm cleared. View Event Details for ...  | ConnectUPS Web/SNMP Card 151 | Warning  | Alert      |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:53 PM | UPS.RFC1628.Alarm removed          | UPS alarm cleared. View Event Details for ...  | ConnectUPS Web/SNMP Card 151 | Warning  | Alert      |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:53 PM | UPS.Powerware.Power restored       | Input power has been restored.                 | ConnectUPS Web/SNMP Card 151 | Warning  | Alert      |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:13 PM | UPS.RFC1628.Alarm added            | UPS alarm activated. View Event Details for... | ConnectUPS Web/SNMP Card 151 | Warning  | Resolution |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:13 PM | UPS.Powerware.Bypass not available | The ups bypass is unavailable.                 | ConnectUPS Web/SNMP Card 151 | Warning  | Resolution |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:13 PM | UPS.RFC1628.Alarm added            | UPS alarm activated. View Event Details for... | ConnectUPS Web/SNMP Card 151 | Warning  | Resolution |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:13 PM | UPS.Powerware.Control off          | The UPS output power will turn off.            | ConnectUPS Web/SNMP Card 151 | Warning  | Resolution |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:08 PM | UPS.Powerware.On battery           | The UPS is on battery.                         | ConnectUPS Web/SNMP Card 151 | Warning  | Resolution |            | 10.221.25.151 |  |
| 12/9/2003                   | 12:03:08 PM | UPS.RFC1628.On battery             | UPS is operating on battery power.             | ConnectUPS Web/SNMP Card 151 | Warning  | Resolution |            | 10.221.25.151 |  |
| 12/9/2003                   | 11:57:49 AM | UPS.RFC1628.Alarm removed          | UPS alarm cleared. View Event Details for ...  | antho                        | Warning  | Alert      |            | 10.221.25.108 |  |
| 12/9/2003                   | 11:57:49 AM | UPS.RFC1628.Alarm removed          | UPS alarm cleared. View Event Details for ...  | antho                        | Warning  | Alert      |            | 10.221.25.108 |  |
| 12/9/2003                   | 11:57:49 AM | UPS.RFC1628.Alarm removed          | UPS alarm cleared. View Event Details for ...  | antho                        | Warning  | Alert      |            | 10.221.25.108 |  |
| 12/9/2003                   | 11:57:25 AM | UPS.RFC1628.Alarm added            | UPS alarm activated. View Event Details for... | antho                        | Warning  | Resolution |            | 10.221.25.108 |  |
| 12/9/2003                   | 11:57:25 AM | UPS.RFC1628.Alarm added            | UPS alarm activated. View Event Details for... | antho                        | Warning  | Resolution |            | 10.221.25.108 |  |
| 12/9/2003                   | 11:57:25 AM | UPS.RFC1628.On battery             | UPS is operating on battery power.             | antho                        | Warning  | Resolution |            | 10.221.25.108 |  |

IBM Director (4.1) Event Log displays events that have occurred on all the UPSs on the network.

## 7. How much does this software cost?

Powerware Extensions for IBM Director is a **free-of-charge** software solution.

## 8. Where can I get more information on this software?

The User Guide for this software is the best source for additional information. It can be easily located on Powerware's Web site – software downloads:

<http://www.powerware.com/software/downloads.asp>