

**Manufacturer: Middle Atlantic**  
**Model: NEXSYS UPS**  
**Device Type: Power**

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**GENERAL INFORMATION**

<b>Q-SYS PLUGIN NAME</b>	Middle Atlantic NEXSYS UPS
<b>VERSION</b>	1.0
<b>AUTHORED BY</b>	Control Concepts, Inc.
<b>SUMMARY</b>	This plugin provides control and feedback of the NEXSYS UPS product line.
<b>GENERAL NOTES</b>	<p>Supported Models:</p> <ul style="list-style-type: none"> <li>• UPX-1000R-2</li> <li>• UPX-1500R-2</li> <li>• UPX-2000R-2</li> <li>• UPX-OL1000R-2</li> <li>• UPX-OL1500R-2</li> <li>• UPX-OL2000R-2</li> <li>• UPX-OL3000R-2</li> <li>• UPX-RLNK-1000R-2</li> <li>• UPX-RLNK-1500R-2</li> <li>• UPX-RLNK-2000R-2</li> <li>• UPX-RLNK-OL1000R-2</li> <li>• UPX-RLNK-OL1500R-2</li> <li>• UPX-RLNK-OL2000R-2</li> <li>• UPX-RLNK-OL3000R-2</li> <li>• UPX-RLNK-1000R-8</li> <li>• UPX-RLNK-1500R-8</li> <li>• UPX-RLNK-2000R-8</li> <li>• UPX-RLNK-OL1000R-8</li> <li>• UPX-RLNK-OL1500R-8</li> <li>• UPX-RLNK-OL2000R-8</li> <li>• UPX-RLNK-OL3000R-6</li> </ul> <p>The plugin will only enable outlet or bank controls based on the model connected to the plugin.</p>
<b>DEVICE USED FOR TESTING</b>	<p>Q-SYS Core 110f – v.9.9.1</p> <p>Middle Atlantic UPX-RLINK-1500R-2 – firmware S02E04</p> <p>Middle Atlantic UPX-RLINK-1500R-8 – firmware S02E04</p>

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## INITIAL SETUP

<p><b>PROPERTIES</b></p>	<p><b>Connection Type:</b> Indicates the device connection type. The options include:</p> <ul style="list-style-type: none"> <li>1- <i>Ethernet</i>: SSH Communication [Default]</li> <li>2- <i>Serial</i>: RS232 Communication</li> </ul> <p><b>Debug Level:</b> Indicates the specificity level of messages that appear in the debug window. The options include:</p> <ul style="list-style-type: none"> <li>1- <i>Off</i>: No messages will be printed. [Default]</li> <li>2- <i>Device Communication</i>: Only messages related to commands going to/coming from physical devices will be printed.</li> <li>3- <i>Troubleshooting</i>: All internal messages will be printed.</li> </ul> <p><b>Log Debug Messages:</b> Indicates whether to also save any messages that are printed to the debug window to the internal Q-SYS processor's logs. [Default: False]</p>
<p><b>ESTABLISHING CONNECTION</b></p>	<p><b>To Connect with Ethernet:</b> During runtime, enter the IP Address, Username, and Password to establish an SSH connection to the device.</p>

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**PLUGIN CONTROLS (Setup)**

<b>IP Address</b>	Set the IP Address of the UPS to connect to. This is only applicable in Connection Type Ethernet. <i>[Input   String]</i>
<b>Username</b>	Set the username of the UPS to connect to. This is only applicable in Connection Type Ethernet. <i>[Input   String]</i>
<b>Password</b>	Set the password of the UPS to connect to. This is only applicable in Connection Type Ethernet. <i>[Input   String]</i>
<b>Status</b>	Indicates the current connection status to the device. <i>[Output   String]</i>
<b>Is Communicating</b>	Indicates if the plugin is communicating with the device. <i>[Output   Boolean]</i>
<b>Is Initialized</b>	Indicates if the plugin has synced all relevant data with the device. <i>[Output   Boolean]</i>
<b>Plugin Version</b>	Indicates the plugin build version. <i>[Output   String]</i>

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**PLUGIN CONTROLS (Controls)**

<b>Outlet [1-8] Name</b>	Set and indicate the corresponding outlet name. <i>[Both   String]</i>
<b>Outlet [1-8] Power</b>	Toggle the corresponding outlet power state. The toggle button state will reflect the reported power state. <i>[Both   Boolean]</i>
<b>Outlet [1-8] Cycle</b>	Trigger the corresponding outlet power cycle with the programmed Cycle Time. <i>[Input   Boolean]</i>
<b>Outlet [1-8] Cycle Time</b>	Set the Cycle Time the Cycle Trigger command will use for the corresponding outlet. Range: 1-60 seconds <i>[Both   Number]</i>
<b>Outlet [1-8] State</b>	Indicates the current power state of the corresponding outlet. <i>[Output   Boolean]</i>
<b>Bank [1-2] Power</b>	Toggle the corresponding bank power state. The toggle button state will reflect the reported power state. <i>[Both   Boolean]</i>
<b>Bank [1-2] Cycle</b>	Trigger the corresponding bank power cycle with the programmed Cycle Time. <i>[Input   Boolean]</i>
<b>Bank [1-2] Cycle Time</b>	Set the Cycle Time the Cycle Trigger command will use for the corresponding bank. Range: 1-60 seconds <i>[Both   Number]</i>
<b>Bank [1-2] State</b>	Indicates the current power state of the corresponding bank. <i>[Output   Boolean]</i>
<b>Restart UPS</b>	Trigger the UPS to restart with the programmed Restart UPS Delay Time. <i>[Input   Boolean]</i>
<b>Restart UPS Delay Time</b>	Set the Restart Delay Time to how long you want the UPS to be powered off for when you trigger Restart UPS. Range: 1-360 minutes <i>[Both   Number]</i>
<b>Buzzer Enable/Disable Toggle</b>	Toggle to enable or disable the buzzer. The toggle button state will reflect the reported enable state. <i>[Both   Boolean]</i>

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<b>Buzzer Enable Status</b>	Indicates the current alarm buzzer is enabled. <i>[Output   Boolean]</i>
<b>Buzzer Silence Until Next Alarm Trigger</b>	Trigger to silence the alarm until the next alarm trigger. <i>[Input   Boolean]</i>
<b>Buzzer Silence Until Next Alarm Status</b>	Indicates the alarm has been silenced until the next alarm trigger. <i>[Output   Boolean]</i>

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**PLUGIN CONTROLS (Details)**

<b>Model</b>	Indicates the model reported by the device. <i>[Output   String]</i>
<b>Serial Number</b>	Indicates the serial number reported by the device. <i>[Output   String]</i>
<b>MAC Address</b>	Indicates the MAC Address reported by the device. <i>[Output   String]</i>
<b>Firmware</b>	Indicates the firmware reported by the device. <i>[Output   String]</i>
<b>Output Source</b>	Indicates the output source reported by the device. Valid values: <ul style="list-style-type: none"> <li>• Normal</li> <li>• Battery</li> <li>• Bypass-3phase Reserve Pwr Path</li> <li>• Reducing</li> <li>• Boosting</li> <li>• Manual Bypass</li> <li>• Other</li> <li>• No output</li> <li>• On ECO</li> <li>• Load Transfer Break</li> </ul> <i>[Output   String]</i>
<b>Input Energy Volage (V)</b>	Indicates the reported input energy voltage. (V) <i>[Output   String]</i>
<b>Input Energy Current (A)</b>	Indicates the reported input energy current. (A) <i>[Output   String]</i>
<b>Input Energy Power (W)</b>	Indicates the reported input energy power. (W) <i>[Output   String]</i>
<b>Output Energy Volage (V)</b>	Indicates the reported output energy voltage. (V) <i>[Output   String]</i>
<b>Output Energy Current (A)</b>	Indicates the reported output energy current. (A) <i>[Output   String]</i>
<b>Output Energy Power (W)</b>	Indicates the reported output energy power. (W) <i>[Output   String]</i>

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<b>Alarm Over Temperature</b>	Indicates if the alarm over temperature is active. <i>[Output   Boolean]</i>
<b>Alarm Overload</b>	Indicates if the alarm overload is active. <i>[Output   Boolean]</i>
<b>Alarm Output Off</b>	Indicates if the alarm output off is active. <i>[Output   Boolean]</i>
<b>Alarm UPS Shutdown</b>	Indicates if the alarm UPS shutdown is active. <i>[Output   Boolean]</i>
<b>Alarm Charger Fail</b>	Indicates if the alarm charger fail is active. <i>[Output   Boolean]</i>
<b>Alarm Fan Fail</b>	Indicates if the alarm fan fail is active. <i>[Output   Boolean]</i>
<b>Alarm Fuse Fail</b>	Indicates if the alarm fuse fail is active. <i>[Output   Boolean]</i>
<b>Alarm Battery Ground Fault</b>	Indicates if the alarm batter ground fault is active. <i>[Output   Boolean]</i>
<b>Alarm Battery Fault</b>	Indicates if the alarm battery fault is active. <i>[Output   Boolean]</i>



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**PLUGIN CONTROLS (Battery)**

<b>Battery Condition</b>	<p>Indicates the battery condition reported by the device. Valid values:</p> <ul style="list-style-type: none"> <li>• Good</li> <li>• Weak</li> <li>• Replace</li> </ul> <p>[Output   String]</p>
<b>Battery Status</b>	<p>Indicates the battery status reported by the device.</p> <p>Valid values:</p> <ul style="list-style-type: none"> <li>• Normal</li> <li>• Low</li> <li>• Depleted</li> </ul> <p>[Output   String]</p>
<b>Battery Charge</b>	<p>Indicates the battery charge reported by the device. Valid values:</p> <ul style="list-style-type: none"> <li>• Charging</li> <li>• Resting</li> <li>• Discharging</li> </ul> <p>[Output   String]</p>
<b>Battery Seconds on Battery</b>	<p>Indicates the seconds left on the battery.</p> <p>[Output   String]</p>
<b>Battery Est. Minutes Remaining</b>	<p>Indicates the minutes left on the battery.</p> <p>[Output   String]</p>
<b>Battery Internal Temperature (Celsius)</b>	<p>Indicates the battery internal temperature.</p> <p>[Output   String]</p>
<b>Battery Level (%)</b>	<p>Indicates the battery level reported by the device. Valid values: 0-100</p> <p>[Output   String]</p>
<b>Battery Voltage (V)</b>	<p>Indicates the reported battery voltage. (V)</p> <p>[Output   String]</p>
<b>Battery Current (W)</b>	<p>Indicates the reported battery current. (W)</p> <p>[Output   String]</p>
<b>Battery Last Replacement Date (MM/DD/YYYY)</b>	<p>Indicates the last replacement date of the battery formatted MM/DD/YYYY</p> <p>[Output   String]</p>
<b>Battery Next Replacement Date (MM/DD/YYYY)</b>	<p>Indicates the next replacement date of the battery formatted MM/DD/YYYY</p> <p>[Output   String]</p>

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## KNOWN ISSUES

- The plugin will fail to login to the UPS for 60s after a disconnect.
- The Outlet Name command does not allow for spaces or special characters.

## ADDITIONAL INFORMATION

Change Log	v1.0 – Initial Release
Support	Company: Control Concepts, Inc. Phone: (201) 797-7900 Email: <a href="mailto:support@controlconcepts.net">support@controlconcepts.net</a> Website: <a href="https://www.controlconcepts.net">https://www.controlconcepts.net</a>