



## Configuring the MSNSwitch For the LAN-Cell 3

### Technote LCTN3003

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## This TechNote applies to LAN-Cell models:

LAN-Cell 3:  
LC3-52U

## Document Revision History:

Date	Comments
Oct 5, 2012	Initial Release

## Introduction

For unattended remote sites, maintaining Internet connectivity is a primary requirement. The MSNSwitch is an IP-enabled power outlet that can be programmed to cycle power to either of its two outlets under a variety of circumstances, including loss of Internet connectivity. Power can also be switched on a scheduled basis or on demand by a remotely connected user. The MSNSwitch can be used to ameliorate situations such as locked up equipment or to conserve power at solar/battery powered sites.

This TechNote illustrates one way to configure the MSNSwitch to automatically power-cycle the Proxicast LAN-Cell 3 router in the event that the LAN-Cell loses Internet connectivity for more than a certain number of minutes. Please refer to the MSNSwitch User Guide for full details on all of the devices capabilities.

[http://www.msns witch.com/file/UserManual\\_3xx\\_ENG\\_1a06.zip](http://www.msns witch.com/file/UserManual_3xx_ENG_1a06.zip)

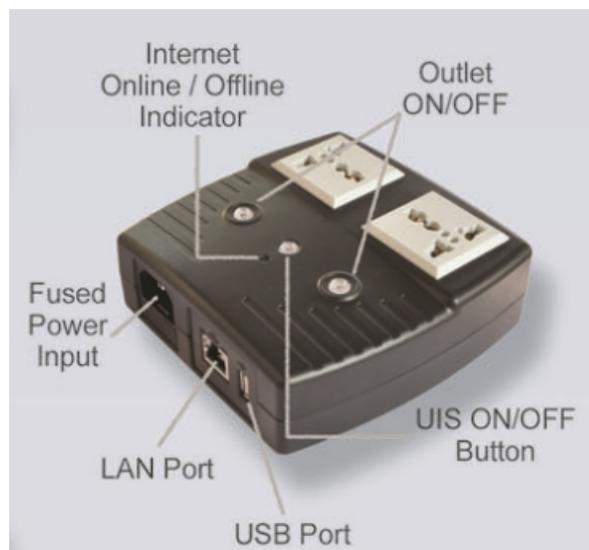


Figure 1: MSNSwitch

- Plug the LAN-Cell 3's power supply into one of the MSNSwitch's outlets.
- Connect an Ethernet cable from the MSNSwitch to one of the LAN-Cell's Ethernet ports.
- Power on the MSNSwitch.
- Power on the LAN-Cell 3 and let it boot up (STAT LED on solid). The MSNSwitch will not be accessible until the LAN-Cell boots up.
- Configure the LAN-Cell 3 as needed for your USB modem and application settings.
- If you need remote access to the MSNSwitch from the Internet, add a Port Forwarding rule for port 80 to the IP address of the MSNSwitch (Figure 2).

Port Forwarding Rules						
Rule Name	Rule Enabled	External Interface	Protocol	External Port Range	Internal IP	Internal Port Range
MSNSwitch	✓	WAN (USB Modem)	TCP	From:80 To:80	192.168.1.2	From:80 To:80

Figure 2

- In a web browser, enter <http://msnswitch>  
The default username=admin / password=blank
- On the **Configuration** screen, change these settings (Figure 3):
  - Set time-out for each Website / IP Address = 5 sec
  - Number of continuous time-outs before outlet(s) reset = 5 times
  - Delay before checking Website/IP Address after power reset = 3 minutes
  - Click the Apply button to save these settings

Time-out Settings [\[help\]](#)

Set time-out for each Website / IP Address	5	second(s)	
			←
			1 - 60 seconds.
Number of continuous time-outs before outlet(s) reset	5		
			←
			1 - 5 time-outs.

Outlet Setup [\[help\]](#)

Outlet 1 Name	Outlet1
Outlet 2 Name	Outlet2
Auto reset outlet(s) every	0 minute(s)
	0 - 1440 minutes. 0=Disable.
Delay before checking Website/IP Address after power reset	3 minute(s)
	0 - 30 minutes.
Outlet power reset delay	2 second(s)
	1 - 120 seconds. Applies to both outlets.
Power-on delay between Outlet 1 and Outlet 2	10 second(s)
	0 - 60 seconds.

Figure 3

- On the **System Time** screen, set the time-zone to match the time-zone selected for the LAN-Cell (e.g. GMT/UTC) and also set the Daylight Savings Time parameters (Figure 4).

System Time	
System Time	2012/08/02 12:29:53
Time Between Automatic Updates	1 Hour
Time Server	time.nist.gov <span>Edit</span>
Time Zone	GMT-5:00 Relative to GMT

Daylight Saving Time	
Using Daylight Saving Time	Automatically
DST begin	0 0 0 (MM/DD/HH)
DST end	0 0 0 (MM/DD/HH)

Figure 4

- Optionally, on the **Schedule** screen, create times when the MSNSwitch periodically power-cycles the LAN-Cell regardless of its Internet connectivity status. You may also schedule a periodic power-cycle on the **System Time** screen.
- On the **Account** screen, create a password for access to the MSNSwitch.
- On the **Network** screen, change the **Obtain an IP Address** mode to Manually and set an IP address in the LAN-Cell local subnet (e.g. 192.168.1.2 / 255.255.255.0). Set the **Default Gateway** address to the LAN-Cell's LAN address (e.g. 192.168.1.1) and set the **DNS Server** values to 192.168.1.1 and 8.8.8.8 (Figure 5)

IP Address <a href="#">[help]</a>	
Hostname	MSNswitch
IP Address	192.168.1.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.1.1
Obtain an IP address*	Manually

DNS Server IP	
Primary DNS Server IP*	192.168.1.1
Secondary DNS Server IP*	8.8.8.8
Obtain DNS Server*	Manually

Figure 5

- Power cycle the MSNSwitch and wait 3 minutes.
- At this point the Green Internet LED and Blue UIS button should be illuminated. If the UIS LED is not blue, press and hold the switch for 2 seconds. If the Internet LED is not green, confirm that the LAN-Cell has had an Internet connection for at least 3 minutes.
- The MSNSwitch will now power cycle its outlets approximately 60 seconds after it loses Internet connectivity through the LAN-Cell. You can adjust this time using the parameters on the **Configuration** Screen, but we recommend a minimum Delay of 3 minutes to give the LAN-Cell time to reboot and make an Internet connection before the MSNSwitch tests for connectivity.
- See the Quick Start Guide included with the MSNSwitch and the User's Guide [http://www.msns witch.com/file/UserManual\\_3xx\\_ENG\\_1a06.zip](http://www.msns witch.com/file/UserManual_3xx_ENG_1a06.zip) for information on the MSNSwitch's advanced capabilities.
- NOTE: When subsequently configuring the LAN-Cell, remember to temporarily disable the MSNSwitch (press the UIS button on the unit or in the web GUI) so that it does not power-cycle the LAN-Cell during critical operations such as firmware updates, etc.

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