

# How to setup rollover on DSR-150

[Test Topology]

PC---(lan)DUT(wan:PPPoE)-----Internet-----Google DNS(8.8.8.8)  
(Rollover wan:3G dongle)-----/

[Test Procedure]

1. Configure the connection type to PPPoE on wan interface.

The screenshot shows the 'WAN SETUP' page in the DSR-150 web interface. The page title is 'WAN SETUP' and it includes a 'LOGOUT' link. Below the title, there is a message: 'This page allows you to set up your Internet connection. Ensure that you have the Internet connection information such as the IP Addresses, Account Information etc. This information is usually provided by your ISP or network administrator.' There are two buttons: 'Save Settings' and 'Don't Save Settings'. Below this is the 'PPPoE Profile Configuration' section. It includes the following fields: 'ISP Connection Type' (set to 'PPPoE (Username/Password)'), 'Address Mode' (radio buttons for 'Dynamic IP' and 'Static IP', with 'Dynamic IP' selected), 'IP Address' (text box with '0.0.0.0'), 'IP Subnet Mask' (text box with '0.0.0.0'), 'User Name' (text box with '71018752@hinet.net'), 'Password' (password field with 8 dots), 'Service' (text box, optional), and 'Authentication Type' (dropdown menu set to 'Auto-negotiate').

2. Configure the Rollover wan. (the APN value is provided by your service provider)

The screenshot shows the 'ROLLOVER WAN SETUP' page in the DSR-150 web interface. The page title is 'ROLLOVER WAN SETUP' and it includes a 'LOGOUT' link. Below the title, there is a message: 'This page allows you to set up your Internet connection. Ensure that you have the Internet connection information such as the IP Addresses, Account Information etc. This information is usually provided by your ISP or network administrator.' There are two buttons: 'Save Settings' and 'Don't Save Settings'. Below this is the 'ROLLOVER WAN (3G Internet)' section. It includes the following fields: 'Reconnect Mode' (radio buttons for 'Always On' and 'On Demand', with 'Always On' selected), 'Maximum Idle Time' (text box), '3G Internet Connection Type' section with 'Username' (text box, optional), 'Password' (text box, optional), 'Dial Number' (text box with '\*99#'), 'Authentication Protocol' (dropdown menu set to 'None'), and 'APN' (text box with 'internet'). Below this is the 'Domain Name System (DNS) Servers' section. It includes the following fields: 'DNS Server Source' (dropdown menu set to 'Get Dynamically from ISP') and 'Primary DNS Server' (text box with '0.0.0.0').

3. SETUP/Internet Settings/WAN mode, select the function “Auto-Rollover using WAN port”, and “Ping these IP addresses, key in the IP address which you want. (When this IP address is unreachable, the DSR will switch the traffic from WAN interface to rollover(3G) interface).

Product Page: DSR-150N Hardware Version: A1

**WAN MODE** LOGOUT

This page allows user to configure the policies on the two WAN ports for Internet connection.

**Port Mode**

**Auto-Rollover using WAN port:**

**Use only single WAN port:**

**WAN Failure Detection Method**

**DNS lookup using WAN DNS Servers:**

**DNS lookup using DNS Servers:**

**WAN:**

**Ping these IP addresses:**

**WAN:**

**Retry Interval is:**  (Seconds)

**Failover after:**  (Failures)

4. Insert the 3G dongle


Product Page: DSR-150N Hardware Version: A1

**D-Link**

**USB SETTINGS** LOGOUT

This page displays information about the USB devices connected to the USB port(s). This page also allows user to do certain configurations on USB devices, such as safely unmounting the devices.

**USB-1: 3G Device Settings**

	<b>Device Vendor:</b>	D-Link Corporation
	<b>Device Model:</b>	DWM-156-A6
	<b>Device Type:</b>	3G
	<b>Mount Status:</b>	Mounted

5. At this moment, the wan1 is up, and rollover wan is down.

Product Page: DSR-150N Hardware Version: A1 Firmware Version: 1.05835\_VW

# D-Link

DSR-150N	SETUP	ADVANCED	TOOLS	STATUS	HELP								
<ul style="list-style-type: none"> <li>Device Info</li> <li>Logs</li> <li>Traffic Monitor</li> <li>Active Sessions</li> <li>Wireless Clients</li> <li>LAN Clients</li> <li>Active VPNs</li> </ul>	<div style="border: 1px solid black; padding: 5px;"> <p><b>DEVICE STATUS</b> <span style="float: right;">LOGOUT</span></p> <p>This page displays the current settings and displays a snapshot of the system information.</p> <hr/> <p><b>General</b></p> <p><b>System Name:</b> DSR-150N</p> <p><b>Firmware Version:</b> 1.05835_VWV</p> <p><b>Serial Number:</b> 000000000001</p> <hr/> <p><b>Dedicated WAN Information</b></p> <p><b>MAC Address:</b> 00:00:00:00:00:05</p> <p><b>IPv4 Address:</b> 1.169.228.196 / 255.255.255.255</p> <p><b>IPv6 Address:</b></p> <p><b>Wan State:</b> UP</p> <p><b>NAT (IPv4 only):</b> Enabled</p> <p><b>IPv4 Connection Type:</b> PPPoE (Username/Password)</p> <p><b>IPv6 Connection Type:</b> IPv6 is disabled</p> <p><b>IPv4 Connection State:</b> Connected</p> <p><b>IPv6 Connection State:</b> IPv6 is disabled</p> <p><b>Link State:</b> LINK UP</p> <p><b>WAN Mode:</b> Auto-Rollover using WAN port: Dedicated WAN</p> <p><b>Gateway:</b> 168.95.98.254</p> <p><b>Primary DNS:</b> 168.95.192.1</p> <p><b>Secondary DNS:</b> 168.95.1.1</p> <p><b>Primary DNS(IPv6):</b></p> <p><b>Secondary DNS(IPv6):</b></p> <hr/> <p><b>ROLLOVER WAN STATUS</b></p> <p><b>IPv4 Address:</b> 0.0.0.0 / 255.255.255.0</p> <p><b>Wan State:</b> DOWN</p> <p><b>NAT (IPv4 only):</b> Enabled</p> <p><b>IPv4 Connection Type:</b> 3G Internet</p> <p><b>IPv4 Connection State:</b> Not Yet Available</p> <p><b>Link State:</b> LINK UP</p> <p><b>WAN Mode:</b> Auto-Rollover using WAN port: Dedicated WAN</p> <p><b>Gateway:</b> 0.0.0.0</p> <p><b>Primary DNS:</b> 0.0.0.0</p> <p><b>Secondary DNS:</b> 0.0.0.0</p> <hr/> <p><b>LAN Information</b></p> <p><b>MAC Address:</b> 00:00:00:00:00:04</p> <p><b>IP Address:</b> 192.168.10.1 / 255.255.255.0</p> <p><b>IPv6 Address:</b></p> <p><b>DHCP Server:</b> Enabled</p> <p><b>DHCP Relay:</b> Disabled</p> <p><b>DHCPv6 Server:</b> IPv6 is disabled</p> <hr/> <p><b>Wireless LAN</b></p> <p><b>Operating Frequency:</b> 2.4GHz</p> <p><b>Mode:</b> N/G-Mixed</p> <p><b>Channel:</b> 2437</p> <hr/> <p><b>Available Access Points</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SSID</th> <th>SECURITY</th> <th>ENCRYPTION</th> <th>AUTHENTICATION</th> </tr> </thead> <tbody> <tr> <td>DSR-150N_1</td> <td>OPEN</td> <td>NONE</td> <td>NONE</td> </tr> </tbody> </table> </div>				SSID	SECURITY	ENCRYPTION	AUTHENTICATION	DSR-150N_1	OPEN	NONE	NONE	<p><b>Helpful Hints...</b></p> <p>All of your Internet and network connection details are displayed on the Device Status page. The firmware version and hardware serial number is also displayed here.</p> <p><a href="#">More...</a></p>
SSID	SECURITY	ENCRYPTION	AUTHENTICATION										
DSR-150N_1	OPEN	NONE	NONE										

**UNIFIED SERVICES ROUTER**

Copyright © 2012 D-Link Corporation.

6. Changing the IP address to 1.1.1.1, an inexistent IP address, for simulate the DUT's wan port is unable to reach this monitored IP address.

DSR-150N // SETUP ADVANCED TOOLS STATUS

Wizard  
Internet Settings  
Wireless Settings  
Network Settings  
VPN Settings  
USB Settings  
VLAN Settings

Operation succeeded

### WAN MODE LOGOUT

This page allows user to configure the policies on the two WAN ports for Internet connection.

#### Port Mode

**Auto-Rollover using WAN port:**

**Use only single WAN port:**

#### WAN Failure Detection Method

**DNS lookup using WAN DNS Servers:**

**DNS lookup using DNS Servers:**

**WAN:**

**Ping these IP addresses:**

**WAN:**

**Retry Interval is:**  (Seconds)

**Failover after:**  (Failures)

7. At this moment, the wan is link down, and Rollover wan is link up and get IP address from ISP.



DSR-150N	SETUP	ADVANCED	TOOLS	STATUS	HELP
Device Info	<b>DEVICE STATUS</b>				<b>LOGOUT</b>
Logs	This page displays the current settings and displays a snapshot of the system information.				
Traffic Monitor	<b>General</b>				
Active Sessions	<b>System Name:</b>		DSR-150N		
Wireless Clients	<b>Firmware Version:</b>		1.05835_VWV		
LAN Clients	<b>Serial Number:</b>		000000000001		
Active VPNs	<b>Dedicated WAN Information</b>				
	<b>MAC Address:</b>		00:00:00:00:00:05		
	<b>IPv4 Address:</b>		111.250.9.26 / 255.255.255.255		
	<b>IPv6 Address:</b>				
	<b>Wan State:</b>		DOWN		
	<b>NAT (IPv4 only):</b>		Enabled		
	<b>IPv4 Connection Type:</b>		PPPoE (Username/Password)		
	<b>IPv6 Connection Type:</b>		IPv6 is disabled		
	<b>IPv4 Connection State:</b>		Connected		
	<b>IPv6 Connection State:</b>		IPv6 is disabled		
	<b>Link State:</b>		LINK UP		
	<b>WAN Mode:</b>		Auto-Rollover using WAN port: Dedicated WAN		
	<b>Gateway:</b>		168.95.98.254		
	<b>Primary DNS:</b>		168.95.192.1		
	<b>Secondary DNS:</b>		168.95.1.1		
	<b>Primary DNS(IPv6):</b>				
	<b>Secondary DNS(IPv6):</b>				
	<b>ROLLOVER WAN STATUS</b>				
	<b>IPv4 Address:</b>		27.241.252.148 / 255.255.255.255		
	<b>Wan State:</b>		UP		
	<b>NAT (IPv4 only):</b>		Enabled		
	<b>IPv4 Connection Type:</b>		3G Internet		
	<b>IPv4 Connection State:</b>		Not Yet Available		
	<b>Link State:</b>		LINK UP		
	<b>WAN Mode:</b>		Auto-Rollover using WAN port: Dedicated WAN		
	<b>Gateway:</b>		10.64.64.66		
	<b>Primary DNS:</b>		210.241.192.201		
	<b>Secondary DNS:</b>		168.95.1.1		
	<b>LAN Information</b>				
	<b>MAC Address:</b>		00:00:00:00:00:04		
	<b>IP Address:</b>		192.168.10.1 / 255.255.255.0		
	<b>IPv6 Address:</b>				
	<b>DHCP Server:</b>		Enabled		
	<b>DHCP Relay:</b>		Disabled		
	<b>DHCPv6 Server:</b>		IPv6 is disabled		
	<b>Wireless LAN</b>				
	<b>Operating Frequency:</b>		2.4GHz		
	<b>Mode:</b>		N/G-Mixed		
	<b>Channel:</b>		2437		
	<b>Available Access Points</b>				
	<b>SSID</b>	<b>SECURITY</b>	<b>ENCRYPTION</b>	<b>AUTHENTICATION</b>	
	DSR-150N_1	OPEN	NONE	NONE	

**Helpful Hints...**

All of your Internet and network connection details are displayed on the Device Status page. The firmware version and hardware serial number is also displayed here.

[More...](#)

UNIFIED SERVICES ROUTER

Copyright © 2012 D-Link Corporation.

8. Check the DUT is still able to surf the Internet.

<b>DSR-150N</b> //	<b>SETUP</b>	<b>ADVANCED</b>	<b>TOOLS</b>
Admin	Pinging 8.8.8.8		
Date and Time	<b>SYSTEM CHECK</b>		
Log Settings	This page displays the output of the diagnostic command which user runs.		
System	<b>Command Output</b>		
Firmware	<pre>PING 8.8.8.8 (8.8.8.8): 56 data bytes 64 bytes from 8.8.8.8: seq=0 ttl=53 time=21.339 ms 64 bytes from 8.8.8.8: seq=1 ttl=53 time=20.560 ms 64 bytes from 8.8.8.8: seq=2 ttl=53 time=19.725 ms 64 bytes from 8.8.8.8: seq=3 ttl=53 time=20.266 ms 64 bytes from 8.8.8.8: seq=4 ttl=53 time=20.496 ms  --- 8.8.8.8 ping statistics --- 5 packets transmitted, 5 packets received, 0% packet loss round-trip min/avg/max = 19.725/20.477/21.339 ms</pre>		
Firmware via USB			
Dynamic DNS			
System Check			
Schedules			

End of this document