

How to set up failover with 3G dongle in DSR series

[Topology]:

PC-----DSR-1000N WAN1-----PPPoE----- Internet
WAN2(DWA-152)-----

[Configuration]:

Product Page: DSR-1000N Hardware Version: A1 Firmware Version: 1.03B09_WW

The screenshot shows the D-Link web interface for the DSR-1000N router. The navigation menu includes: DSR-1000N, SETUP, ADVANCED, TOOLS, STATUS, and HELP. The 'SETUP' menu is expanded, showing: Internet Settings, Wireless Settings, Network Settings, DMZ Setup, VPN Settings, USB Settings, and VLAN Settings. The 'Internet Settings' menu is further expanded to show: WAN1 Settings, WAN2 Settings, and Configurable Port. The 'WAN1 Settings' menu is expanded to show: WAN1 Status, WAN1 Setup, and WAN1 Connection. The 'WAN1 Setup' option is highlighted with a red box. The main content area displays the 'Setup Wizard' section, which includes a 'LOGOUT' button, a 'Note' about following the Quick Installation Guide, and two buttons: 'Internet Connection Setup Wizard' and 'Manual Internet Connection Setup'.

D-Link

DSR-1000N // SETUP ADVANCED TOOLS STATUS HELP

Wizard ▾

Internet Settings ▾ WAN1 Settings ▾ WAN1 Status LOGOUT

Wireless Settings ▾ WAN2 Settings ▾ WAN1 Setup

Network Settings ▾ Configurable Port

DMZ Setup ▾ Routing Mode

VPN Settings ▾ WAN Mode

USB Settings

VLAN Settings ▾

Helpful Hints...
If you are new to networking and have never configured a router before, click on Internet Connection Setup Wizard and the router will run you through a few simple steps to get your network up and running.
If you consider yourself an Advanced user and have configured a router before, click Manual Internet Connection Setup to input all the settings manually.
[More...](#)

Setup Wizard

our easy to use Web-based Wizards to assist you in connecting your new D-Link Systems Router to the Internet, click on the button below.


Note: Before launching these wizards, please make sure you have followed all steps outlined in the Quick Installation Guide included in the package.

Manual Internet Connection Options

If you would like to configure the Internet settings of your new D-Link Systems Router manually, then click on the button below.

UNIFIED SERVICES ROUTER

<ul style="list-style-type: none"> Internet Settings ▾ Wireless Settings ▾ Network Settings ▾ DMZ Setup ▾ VPN Settings ▾ USB Settings ▾ VLAN Settings ▾ 	LOGOUT	<p>WAN2 SETUP</p> <p>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.</p> <p> <input type="button" value="Save Settings"/> <input type="button" value="Don't Save Settings"/> </p> <p>ISP Connection Type</p> <p>ISP Connection Type: 3G Internet ▾</p> <p>Reconnect Mode: <input checked="" type="radio"/> Always On <input type="radio"/> On Demand</p> <p>Maximum Idle Time: 5</p> <p>3G Internet Connection Type</p> <p>Username: <input type="text"/> (Optional)</p> <p>Password: <input type="text"/> (Optional)</p> <p>Dial Number: *99#</p> <p>Authentication Protocol: None ▾</p> <p>APN: internet</p> <p>Domain Name System (DNS) Servers</p> <p>DNS Server Source: Get Dynamically from ISP ▾</p> <p>Primary DNS Server: 0.0.0.0</p> <p>Secondary DNS Server: 0.0.0.0</p>	<p>The setup page lets you configure the ISP settings to enable this router to connect to the Internet. This router supports multiple connections. Please select the appropriate connection to connect to the Internet. If you are connecting to a 3G ISP, please check the USB card status on Setup > USB Settings page.</p> <p>More...</p>
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DSR-1000N //	SETUP	ADVANCED	TOOLS	STATUS	HELP
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Internet Settings | WAN MODE | LOGOUT

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

Save Settings | Don't Save Settings

Port Mode

Auto-Rollover using WAN port: WAN1

Load Balancing: Round Robin

Use only single WAN port: WAN1

WAN Failure Detection Method

None:

DNS lookup using WAN DNS Servers:

DNS lookup using DNS Servers:

WAN1: 0.0.0.0

WAN2: 0.0.0.0

Ping these IP addresses:

WAN1: 8.8.8.8

WAN2: 0.0.0.0

Retry Interval is: 30 (Seconds)

Failover after: 4 (Failures)

SPOILOVER CONFIGURATION

By configuring both WANs, there are two ways for the router to access the internet. Load balancing allows traffic to and from the internet to be shared across both configured links to ensure one ISP is not excessively overloaded. Auto-Rollover uses a backup link to preserve internet connectivity for the LAN if the main ISP configured on the primary WAN fails for any reason.

More...

[Testing procedure]:

1. WAN1 and DWA-152 is used for WAN2

Logs | Traffic Monitor | Active Sessions | Active RunTime Sessions | Wireless Clients | LAN Clients | Active VPNs | DEVICE STATUS | LOGOUT

This page displays the current settings and displays a snapshot of the system information.

General

System Name: DSR-1000N

Firmware Version: 1.03B09_WW

Serial Number: 00000000000001

WAN1 Information

MAC Address: 00:00:00:00:00:2A

IPv4 Address: 124.8.75.225 / 255.255.255.255

IPv6 Address:

Wan State: UP

NAT (IPv4 only): Enabled

IPv4 Connection Type: PPPoE (Username/Password)

IPv6 Connection Type: IPv6 is disabled

IPv4 Connection State: Connected

IPv6 Connection State: IPv6 is disabled

Link State: LINK UP

WAN Mode: Auto-Rollover using WAN port: Secondary WAN

Gateway: 211.78.222.77

Primary DNS: 61.31.1.1

Secondary DNS: 61.31.233.1

Primary DNS(IPv6):

Secondary DNS(IPv6):

WAN2 Information

MAC Address: 00:00:00:00:00:2B

IPv4 Address: 0.0.0.0 / 255.255.255.0

IPv6 Address:

Wan State: DOWN

NAT (IPv4 only): Enabled

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...

2. Unplug the WAN1 and check the status of WAN2:

Logs Traffic Monitor Active Sessions Active RunTime Sessions Wireless Clients LAN Clients Active VPNs	DEVICE STATUS LOGOUT	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...																															
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DSR_log.txt