

Configuration Guide



How to Configure the DSR Series for WAN failover

Overview

This guide describes how to configure the D-Link DSR Series Services Router for WAN failover over the PPPoE and 3G connections. All screenshots in this document are captured from firmware version 3.11 of DSR-250N.

1. INTRODUCTION

1.1. Purpose

The D-Link DSR Series uses WAN failover technology to make sure an enterprise stays connected to the Internet. It provides a redundant connection so network traffic can still connect through the Internet over the 3G interface if the PPPoE connection goes down.

1.2. Scope

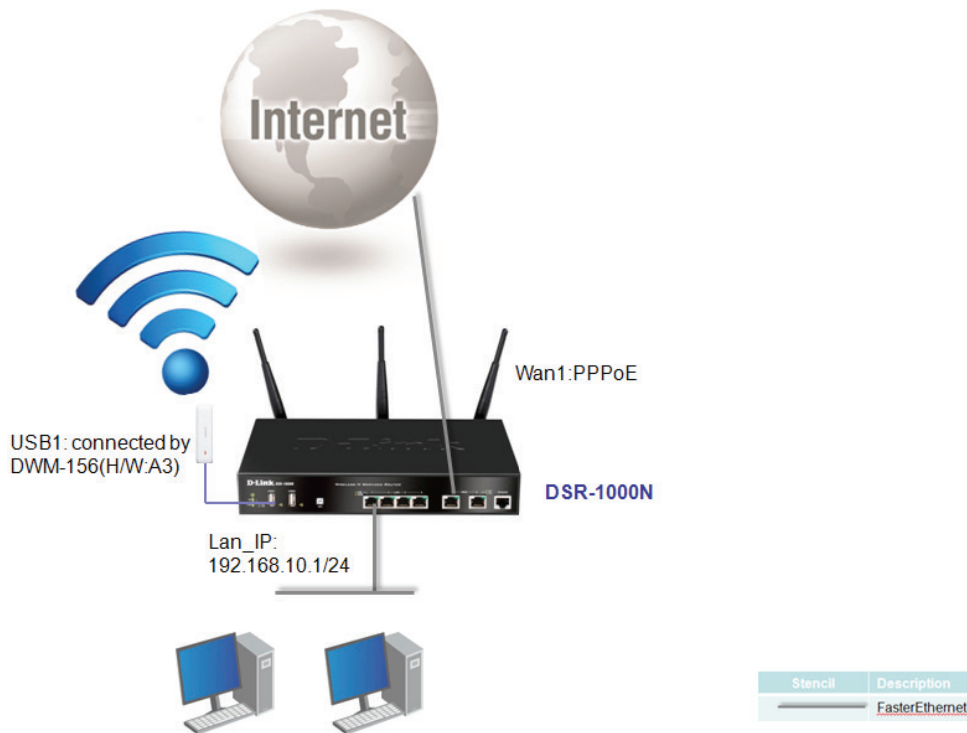
This document describes the WAN failover configuration steps for network administrators.

1.3. Hardware Requirements

DSR-certified 3G dongles including D-Link DWM-152 A1/A2/A3, DWM-156 A1/A2/A3/A4/A5/A6/A7/A8, DWM-157 C1 and DWM-158 E1, DWM-221 & 222, Huawei E1550, E173 and EC306.

1.4. Software Requirements

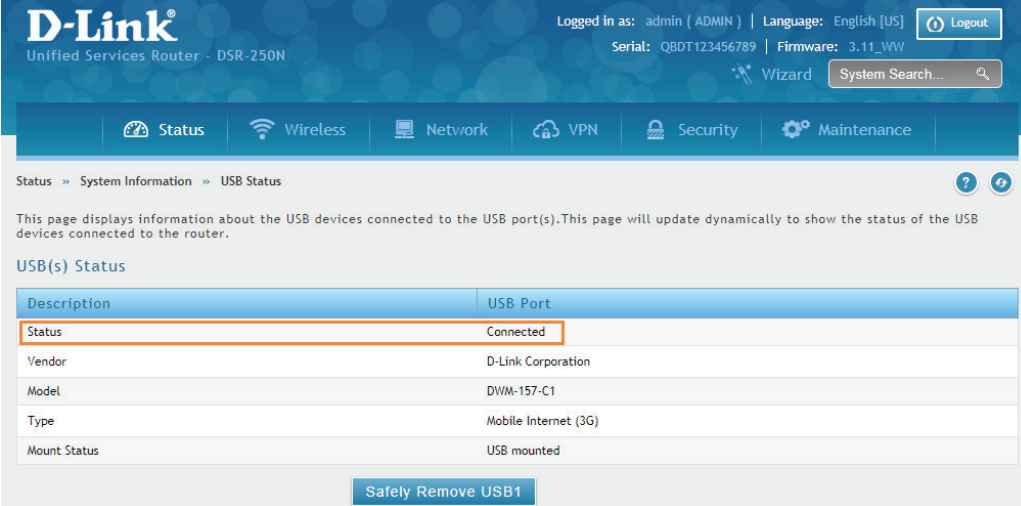
A web browser such as Internet Explorer, Firefox or Google Chrome.



WAN FAILOVER CONFIGURATION

Step 1. Insert the certified 3G dongle into the USB port.

Step 2. Go to [Status](#)>>[System Information](#)>>[USB Status](#), and check to make sure the 3G dongle is connected to DSR.



The screenshot shows the D-Link Unified Services Router (USR) web interface. The top navigation bar includes links for Status, Wireless, Network, VPN, Security, and Maintenance. The current page is "USB Status" under "System Information". The page displays a table with the following data:

Description	USB Port
Status	Connected
Vendor	D-Link Corporation
Model	DWM-157-C1
Type	Mobile Internet (3G)
Mount Status	USB mounted

Below the table is a button labeled "Safely Remove USB1".

Step 3. Go to Network>>Internet>>WAN Settings, and enter all information provided by the ISP (e.g. username and password) for connecting to the Internet. In this example, PPPoE is selected for connecting to the Internet.

ISP Connection Type: Choose PPPoE (enter the Username/Password).

Username: Enter the username provided by your ISP.

Password: Enter the password provided by your ISP.

IPv4 WAN Settings

WAN Setup

Connection Type: PPPoE (Username/Passw ▾)

Enable VLAN Tag: OFF

PPPoE Profile Configuration

Address Mode: Dynamic IP Static IP

User Name: dlink

Password: *****

Service: Optional

Authentication Type: Auto-negotiate ▾

Reconnect Mode: Always On On Demand

Domain Name System (DNS) Servers

DNS Server Source: Get Dynamically from ISP Use These DNS Servers

MAC Address

MAC Address Source: Use Default MAC Clone your PC's MAC Use this MAC

Port Setup

MTU Size: Default Custom

Port Speed: Auto Sense ▾

Step 4. Go to [Network](#)>>[Internet](#)>>[Rollover WAN Settings](#), and configure all ISP provided information for 3G connections.

Rollover WAN Settings

Rollover WAN (Mobile Internet)

Reconnect Mode Always On On Demand

Mobile Internet Connection Type

User Name Optional

Password Optional

Dial-In Number *99#

Authentication Protocol None ▾

APN Required ON OFF

APN wap.isp.com

Domain Name System (DNS) Servers

DNS Server Source Get Dynamically from ISP Use These DNS Servers

Port Setup

MTU Size Default Custom

Step 5. Go to [Setup](#)>>[Internet Settings](#)>>[WAN mode](#):

Select Auto-Rollover Using WAN Port from the drop-down menu, and click Save.

WAN Mode

WAN Mode Setup

WAN Mode Auto-Rollover using WAN ▾

Auto-Rollover using WAN port

WAN health check WAN DNS Servers ▾

Retry Interval is 30 [Default: 30, Range: 5 - 999] Seconds

Failover After 4 [Default: 4, Range: 2 - 999] Failures

Save Cancel

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