

Configuration Guide



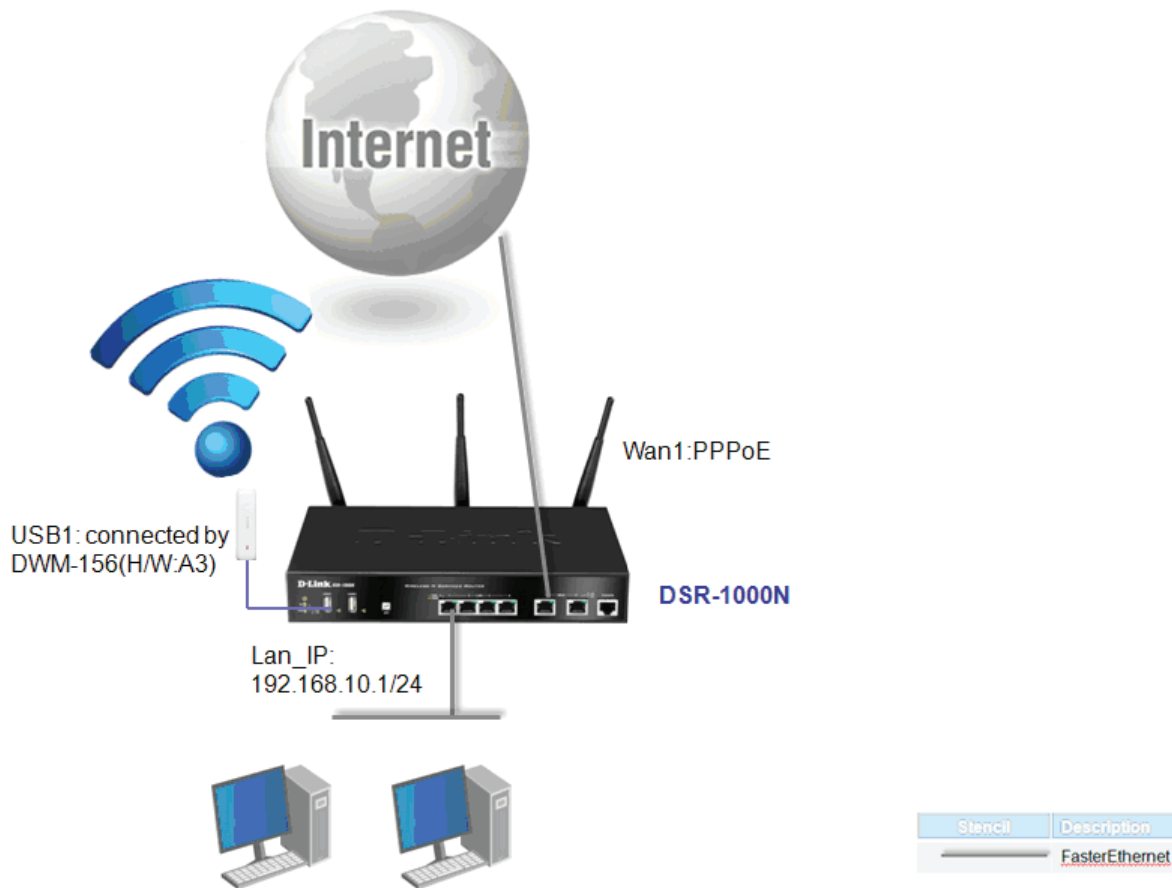
How to enable the failover between PPPoE and 3G connections on WANs

Overview

This document describes how to enable 3G failover on DSR series. All screenshots in this document is captured from 1.06B53 of DSR-1000N. If you are not using this version of firmware, the screenshots may not be identically the same as what you see in your D-Link DSR device

Situation note

WAN failover keeps connection to Internet all the time. This feature guarantees reachability to important customers, loss-free for critical messages and communications between colleagues. This document guides admin to quickly enable 3G failover on DSR series.



Prerequisites

1. DSR-1000/1000N with firmware latter than 1.06B53 or DSR-500/500N with firmware latter than 1.06B53 or DSR-150/150N with firmware latter than 1.06B46 or DSR-250/250N with firmware latter than 1.05B20
2. DSR certified 3G dongles including D-Link DWM-152 A1/A2/A3, DWM-156 A1/A2/A3/A5/A6, DWM-157, Huawei E1550, E173 and EC306.


Steps

1. Insert the certified 3G dongle into the USB port.
2. Go to [Setup->USB Settings->USB Status](#), and check whether the 3G dongle is connecting to DSR.


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

	Device Vendor: D_link Device Model: MMC_Storage Device Type: 3G Mount Status: Mounted
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USB-2: Device Not Connected

	Device Vendor: NA Device Model: NA Device Type: NA Mount Status: NA
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3. Go to [Setup->Internet Settings->WAN1 Settings->WAN1 Setup](#), and configure all ISP providing information, e.g. username and password, to connect to Internet. In this document, we chose PPPoE to connect to Internet.

ISP Connection Type: please choose PPPoE (Username/Password).

Username: please fill out the username provided by your ISP.

Password: please fill out the password provided by your ISP.

Go

PPPoE Profile Configuration	
ISP Connection Type:	PPPoE (Username/Password) ▾
Enable VLAN Tag:	<input type="checkbox"/>
VLAN ID:	33
Address Mode:	<input checked="" type="radio"/> Dynamic IP <input type="radio"/> Static IP
IP Address:	0.0.0.0
IP Subnet Mask:	0.0.0.0
User Name:	72984506@hinet.net
Password:
Service:	<input type="text"/> (Optional)
Authentication Type:	Auto-negotiate ▾
Reconnect Mode:	<input checked="" type="radio"/> Always On <input type="radio"/> On Demand
Maximum Idle Time:	5

Domain Name System (DNS) Servers	
DNS Server Source:	Get Dynamically from ISP ▾
Primary DNS Server:	0.0.0.0
Secondary DNS Server:	0.0.0.0

MAC Address	
MAC Address Source:	Use Default Address ▾
MAC Address:	00:00:00:00:00:00

4. Go to [Setup->Internet Settings->WAN3 Settings->WAN3 Setup](#), and configure all ISP providing information for 3G connections. (For DSR-500(N), please go to [Go to Setup->Internet Settings->WAN2 Settings->WAN2 Setup](#), and select 3G Internet from "ISP Connection Type" to configure 3G connections; For DSR-150(N) and DSR-250(N), please go to [Setup->Internet Settings->Rollover WAN Settings](#) to configure 3G connections.)

Dial number: please enter the number that your ISP provide to you. In this case, our ISP use *99#.

APN: please enter the number that your ISP provide to you. In this case, our ISP use wap.isp.com.

WAN3 (3G Internet)	
Reconnect Mode:	<input checked="" type="radio"/> Always On <input type="radio"/> On Demand
Maximum Idle Time:	<input type="text" value="5"/>
3G Internet Connection Type	
User Name:	<input type="text"/> (Optional)
Password:	<input type="text"/> (Optional)
Dial Number:	<input type="text" value="*99#"/>
Authentication Protocol:	<input type="text" value="None"/> ▼
APN Required:	<input checked="" type="checkbox"/>
APN:	<input type="text" value="wap.isp.com"/>
Domain Name System (DNS) Servers	
DNS Server Source:	<input type="text" value="Get Dynamically from ISP"/> ▼
Primary DNS Server:	<input type="text" value="0.0.0.0"/>
Secondary DNS Server:	<input type="text" value="0.0.0.0"/>

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

<i> Enable auto-failover and assign the backup connection

Auto-Rollover using WAN port: selected

Primary WAN: the main ISP connection you are using. In this document, we select WAN1.

Secondary WAN: the backup ISP connection you are using. In this document, we select WAN3

Port Mode	
Auto-Rollover using WAN port:	<input checked="" type="radio"/>
Primary WAN:	WAN1 ▾
Secondary WAN:	WAN3 ▾
Load Balancing:	<input type="radio"/> Round Robin ▾
Use only single WAN port:	<input type="radio"/> WAN1 ▾

<ii> Select the method used to detect the main connection failure

On DSR series, we offer three methods to detect the main connection failure. The first one is **DNS lookup using WAN DNS Servers** that detects failure of a WAN link using the DNS servers configured in the WAN1 or WAN2 or WAN3(3G) via WAN configuration pages. The second one is **DNS lookup using DNS Servers** that that detects failure of a WAN link using admin manually configured DNS servers for WAN1 or WAN2 or WAN3(3G) in this page. The last one is **Ping these IP addresses** that detects failure of a WAN link using ping to admin defined IP addresses. In this case, we select Ping these IP addresses.

Ping these IP addresses: selected

Failover after: failover to the backup connection after X trial

WAN Failure Detection Method	
None:	<input type="radio"/>
DNS lookup using WAN DNS Servers:	<input type="radio"/>
DNS lookup using DNS Servers:	<input type="radio"/>
WAN1:	<input type="text" value="0.0.0.0"/>
WAN2:	<input type="text" value="0.0.0.0"/>
WAN3:	<input type="text" value="0.0.0.0"/>
Ping these IP addresses:	<input checked="" type="radio"/>
WAN1:	<input type="text" value="8.8.8.8"/>
WAN2:	<input type="text" value="0.0.0.0"/>
WAN3:	<input type="text" value="0.0.0.0"/>
Retry Interval is:	<input type="text" value="10"/> (Optional)
Failover after:	<input type="text" value="10"/> (Failures)
SPILLOVER CONFIGURATION	
Load Tolerance:	<input type="text" value="80"/>
Max Bandwidth:	<input type="text" value="8192"/> <input type="text" value="bps"/> (Max. 100 Mbps)

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