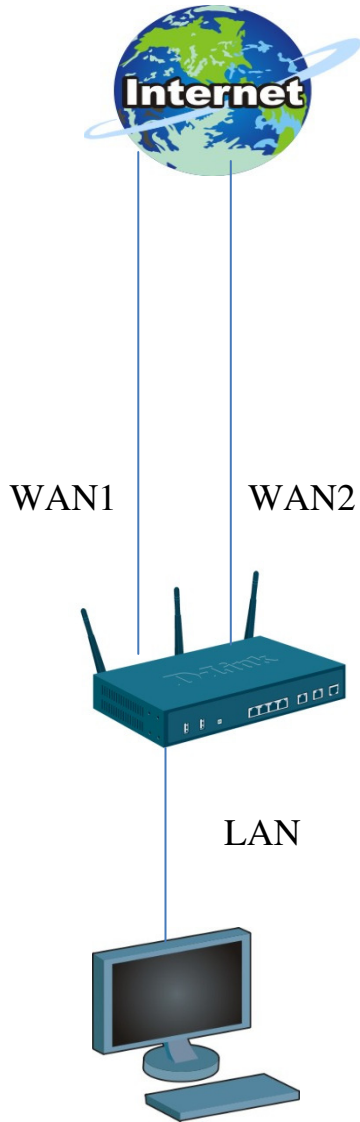


❖ Configuration Examples

Auto-Rollover

Topology



WAN Modes

The WAN mode settings allows configuration of one or more internet interfaces called WAN ports. The User can configure the device to use a single dedicated port for all the external WAN traffic or use both the WANs available on the device for inbound/outbound traffic. When both WAN ports are configured and active, they can be used concurrently to share the internet traffic load or can be used to provide redundancy in the event of one of the links going down.

The following actors participate in these use cases:

- ❖ User – the administrator who takes various operational actions on the system.
- ❖ Device – DSR series
- ❖ Host - machine behind the Device used to access management interface.
- ❖ WAN host – Internet host.



Click Save Settings to apply configuration changes or Don't Save Settings to discard any changes and revert to the previously saved settings.

Auto-Rollover with Multiple WAN ports

(1) Go to setup->internet setting->wan1 settings-> wan1 setup

Wizard	▶
Internet Settings	▷
Wireless Settings	▶
Network Settings	▶
DMZ Setup	▶
VPN Settings	▶
USB Settings	▶
VLAN Settings	▶

WAN1 SETUP LOGOUT

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.

ISP Connection Type

ISP Connection Type:

Host Name:

Domain Name System (DNS) Servers

DNS Server Source:

Primary DNS Server:

Secondary DNS Server:

(2) Go to setup->internet setting->wan2 settings-> wan2 setup

Wizard	▶
Internet Settings	▷
Wireless Settings	▶
Network Settings	▶
DMZ Setup	▶
VPN Settings	▶
USB Settings	▶
VLAN Settings	▶

WAN2 SETUP LOGOUT

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.

ISP Connection Type

ISP Connection Type:

IP Address:

IP Subnet Mask:

Gateway IP Address:

Domain Name System (DNS) Servers

Primary DNS Server:

Secondary DNS Server:

(3) Go to setup->internet setting->wan mode

In this example, wan1 is my default route. wan2 is my backup route.

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: WAN1 ▾

Load Balancing: Round Robin ▾

Use only single WAN port: WAN1 ▾

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:

WAN2:

Ping these IP addresses:

WAN1:

WAN2:

Retry Interval is: (Seconds)

Failover after: (Failures)

Auto-Rollover success



DSR-1000N //

SETUP

ADVANCED

TOOLS

STATUS

HELP

- Device Info ▾
- 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: QB341A6000030

WAN1 Information

MAC Address: 00:18:E7:D8:6C:50
IPv4 Address: 0.0.0.0 / 0.0.0.0
IPv6 Address:
Wan State: DOWN
NAT (IPv4 only): Enabled
IPv4 Connection Type: Dynamic IP (DHCP)
IPv6 Connection Type: IPv6 is disabled
IPv4 Connection State: Not Yet Connected
IPv6 Connection State: IPv6 is disabled
Link State: LINK DOWN
WAN Mode: Auto-Rolover using WAN port: Dedicated WAN
Gateway: 0.0.0.0
Primary DNS: 0.0.0.0
Secondary DNS: 0.0.0.0
Primary DNS(IPv6):
Secondary DNS(IPv6):

WAN2 Information

MAC Address: 00:18:E7:D8:6C:51
IPv4 Address: 218.210.16.29 / 255.255.255.240
IPv6 Address:
Wan State: UP
NAT (IPv4 only): Enabled
IPv4 Connection Type: Static IP
IPv6 Connection Type: IPv6 is disabled
IPv4 Connection State: Connected
IPv6 Connection State: IPv6 is disabled
Link State: LINK UP
WAN Mode: Auto-Rolover using WAN port: Dedicated WAN
Gateway: 218.210.16.25
Primary DNS: 168.95.1.1
Secondary DNS: 8.8.8.8
Primary DNS(IPv6):
Secondary DNS(IPv6):

LAN Information

MAC Address: 00:18:E7:D8:6C:4F
IP Address: 192.168.10.1 / 255.255.255.0
IPv6 Address:
DHCP Server: Enabled
DHCP Relay: Disabled
DHCPv6 Server: IPv6 is disabled

Wireless LAN

Operating Frequency: 2.4GHz
Mode: N/G-Mixed
Channel: 6 - 2.437GHz

Available Access Points

SSID	SECURITY	ENCRYPTION	AUTHENTICATION
DSR-1000N_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

Use case #	1
Description	This use case describes WAN auto-rollover mode of operation and its configuration details.
Actors	User, Device, Host, WAN host
Assumptions	Both WAN interfaces are configured and operational on the Device, and the mode of WAN operation selected is Auto-Rollover using WAN port.

Steps	<p>The auto-rollover feature allows the User to use a secondary ISP link for backup purposes that becomes active when failure is detected on the primary ISP link. When in this mode, the Device checks the connection of the primary link at regular intervals to assess its status.</p> <ol style="list-style-type: none"> 1. WAN failure detection method: Failure on a WAN link implies that it is no longer available for internet traffic. There are several options available to detect failure on the primary WAN link: <ol style="list-style-type: none"> a. DNS lookup: The User can configure the Device to use either the DNS server IP address configured in WAN settings or specify custom DNS server IP address. Failure to access these servers during regular intervals will point to a link failure. b. Ping these IP addresses: The user selects this option to detect WAN failure by pinging an IP address. c. Retry Interval is: The frequency the Device will use to detect a link failure is defined here. Upon reaching the retry limit, the WAN link is considered to be failed. This increments the failover counter. 2. Failover after configured number of attempts: User enters the desired number of failure detection attempts after which the Device will switch to the secondary configured WAN connection. The failover counter used in 1c above is compared to this threshold and is reset to 0 when the secondary WAN link is made active (i.e. the link rollover is complete)
Notes/Issues	<ol style="list-style-type: none"> 1. User should ensure that the secondary WAN port is configured and active before selecting auto-rollover mode of operation. 2. When using ping as the WAN failure detection method, the configured IP address must respond to ping requests from the Device.