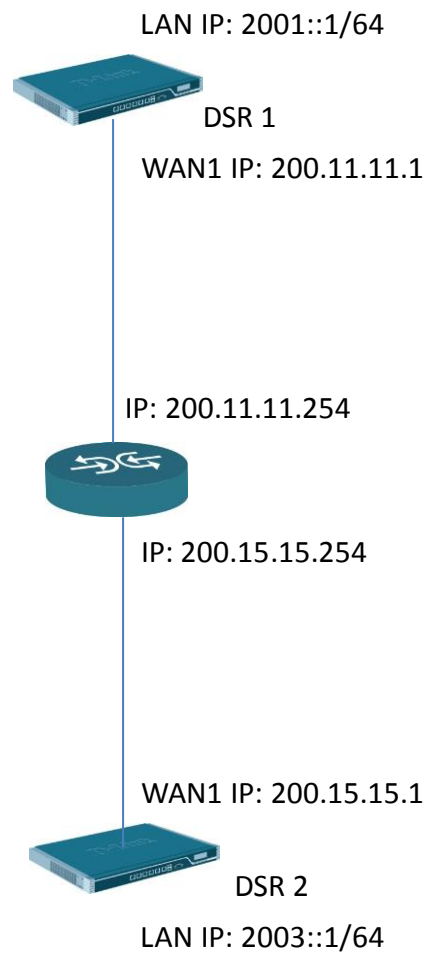


How to setup 6 to 4 tunnel on the DSR

Note: If you want to use this function, please use firmware version 1.03B67.

Topology:



Setup:

DSR 1

(1) Setup WAN1 interface IP address.

The screenshot shows the WAN1 Setup page in the D-Link DSR-1000N web interface. The page title is "WAN1 SETUP" and it includes a "LOGOUT" link. A description states: "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." Below this are "Save Settings" and "Don't Save Settings" buttons. The "ISP Connection Type" is set to "Static IP". The "IP Address" field is highlighted with a red box and contains "200.11.11.1". The "IP Subnet Mask" is "255.255.255.0" and the "Gateway IP Address" is "200.11.11.254". Below these are "Domain Name System (DNS) Servers" with "Primary DNS Server" at "168.95.1.1" and "Secondary DNS Server" at "8.8.8.8". The "MAC Address" section shows "MAC Address Source" as "Use Default Address" and "MAC Address" as "00:00:00:00:00:00". A "Helpful Hints..." sidebar on the right explains the setup page's purpose and provides a "More..." link.

(2) Go to "IP mode" then enable "IPv4/IPv6 mode".

The screenshot shows the IP Mode page in the D-Link DSR-1000N web interface. The page title is "IP MODE" and it includes a "LOGOUT" link. A description states: "This page allows user to configure the IP protocol version to be used on the router." Below this are "Save Settings" and "Don't Save Settings" buttons. The "Routing Mode" section has three options: "IPv4 only mode:" (unselected), "IPv4 / IPv6 mode:" (selected and highlighted with a red box), and "Link Local Connectivity:" (unchecked). A "Helpful Hints..." sidebar on the right explains that to support IPv6 on the LAN, the router must be set to IPv4 / IPv6 mode and provides a "More..." link.

(3) Setup IPV6 LAN IP address.

The screenshot shows the D-Link DSR-1000N web interface. The top navigation bar includes 'Product Page: DSR-1000N', 'Hardware Version: A1', and 'Firmware Version: 1.03867_WW'. The main header features the D-Link logo and a navigation menu with 'DSR-1000N //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. A left sidebar lists various settings categories, with 'IPv6' selected. The main content area is titled 'IPV6 LAN CONFIG' and includes a 'LOGOUT' link. Below the title, there is a description: 'This page allows user to IPv6 related LAN configurations.' and two buttons: 'Save Settings' and 'Don't Save Settings'. The 'LAN TCP/IP Setup' section contains two input fields: 'IPv6 Address' with the value '2001::1' and 'IPv6 Prefix Length' with the value '64'. Below this is the 'DHCPv6' section, which includes 'DHCP Status' (set to 'Disable DHCPv6 Server'), 'DHCP Mode' (set to 'Stateless'), 'Domain Name' (set to 'dlink.com'), 'Server Preference' (set to '255'), 'DNS Servers' (set to 'Use DNS Proxy'), 'Primary DNS Server', 'Secondary DNS Server', and 'Lease/Rebind Time' (set to '86400 (Seconds)'). A 'Helpful Hints...' sidebar on the right explains that the IPv6 address is 128 bits and that changes affect all devices connected to the router's LAN switch.

(4) Enable “automatic tunneling” function.

The screenshot shows the D-Link DSR-1000N web interface. The top navigation bar includes 'Product Page: DSR-1000N', 'Hardware Version: A1', and 'Firmware Version: 1.03867_WW'. The main header features the D-Link logo and a navigation menu with 'DSR-1000N //', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. A left sidebar lists various settings categories, with 'IPv6' selected. The main content area is titled '6 TO 4 TUNNELING' and includes a 'LOGOUT' link. Below the title, there is a description: 'This page allows user to enable/disable the 6 to 4 tunneling.' and two buttons: 'Save Settings' and 'Don't Save Settings'. The 'Enable Automatic Tunneling' section contains a checkbox labeled 'Enable Automatic Tunneling' which is checked. A 'Helpful Hints...' sidebar on the right explains that with this option enabled, IPv4 address information is embedded in IPv6 addresses on the LAN, and this is common in networks that use both IPv4 and IPv6 nodes.

(5) You need to IPv6 static routes!

Destination should be remote LAN IPv6 address.

Gateway address should be remote endpoint WAN IP address.

Product Page: DSR-1000N Hardware Version: A1 Firmware Version: 1.03B67_WW

D-Link

DSR-1000N // SETUP ADVANCED TOOLS STATUS HELP

Application Rules ▶
Website Filter ▶
Firewall Settings ▶
Wireless Settings ▶
Advanced Network ▶
Routing ▶
Certificates
Users ▶
IP/MAC Binding
IPv6 ▶
Radius Settings
Captive Portal ▶
Switch Settings
Intel® AMT

IPv6 STATIC ROUTING LOGOUT

This page shows a list of IPv6 static routes added. A user can add, delete and edit the routes also.

List of IPv6 Static Routes

<input type="checkbox"/>	Name	Destination	Gateway	Interface	Metric	Active
<input type="checkbox"/>	ipv4	2003:: /64	::200.15.15.1	sit0-WAN1	10	Yes

Edit Delete Add

Helpful Hints...
Use this page to define static routes for the IPv6 related interfaces.
[More...](#)

UNIFIED SERVICES ROUTER

DSR 2

(1) Setup WAN1 interface IP address.

D-Link

DSR-1000N // SETUP ADVANCED TOOLS STATUS HELP

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.

Save Settings Don't Save Settings

ISP Connection Type

ISP Connection Type: Static IP ▾

IP Address: 200.15.15.1
IP Subnet Mask: 255.255.255.0
Gateway IP Address: 200.15.15.254

Domain Name System (DNS) Servers

Primary DNS Server: 168.95.1.1
Secondary DNS Server: 8.8.8.8

MAC Address

MAC Address Source: Use Default Address ▾

Helpful Hints...
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.
More...

(2) Go to "IP mode" then enable "IPv4/IPv6 mode".

Product Page: DSR-1000N Hardware Version: A1 Firmware Version: 1.03B67_WW

D-Link

DSR-1000N // SETUP ADVANCED TOOLS STATUS HELP

Application Rules ▾
Website Filter ▾
Firewall Settings ▾
Wireless Settings ▾
Advanced Network ▾
Routing ▾
Certificates ▾
Users ▾
IP/MAC Binding ▾
IPv6 ▾
Radius Settings ▾
Captive Portal ▾
Switch Settings ▾
Intel® AMT ▾

IP MODE LOGOUT

This page allows user to configure the IP protocol version to be used on the router.

Save Settings Don't Save Settings

Routing Mode

IPv4 only mode:
IPv4 / IPv6 mode:
Link Local Connectivity:

Helpful Hints...
In order to support IPv6 on the LAN, you must set the router to be in IPv4 / IPv6 mode. This mode will allow IPv4 nodes to communicate with IPv6 devices through this router. Select Link Local Connectivity to map IPv4 addresses to a link-local IPv6 address.
More...

UNIFIED SERVICES ROUTER

(3) Setup IPV6 LAN IP address.

Product Page: DSR-1000N Hardware Version: A1 Firmware Version: 1.03B67_WW

D-Link

DSR-1000N //	SETUP	ADVANCED	TOOLS	STATUS	HELP
--------------	-------	----------	-------	--------	------

Application Rules ▶

Website Filter ▶

Firewall Settings ▶

Wireless Settings ▶

Advanced Network ▶

Routing ▶

Certificates

Users ▶

IP/MAC Binding

IPv6 ▶

Radius Settings

Captive Portal ▶

Switch Settings

Intel® AMT

IPv6 LAN CONFIG LOGOUT

This page allows user to IPv6 related LAN configurations.

LAN TCP/IP Setup

IPv6 Address:	<input type="text" value="2003::1"/>
IPv6 Prefix Length:	<input type="text" value="64"/>

DHCPv6

DHCP Status:	<input type="text" value="Disable DHCPv6 Server"/>
DHCP Mode:	<input type="text" value="Stateless"/>
Domain Name:	<input type="text" value="dlink.com"/>
Server Preference:	<input type="text" value="255"/>
DNS Servers:	<input type="text" value="Use DNS Proxy"/>
Primary DNS Server:	<input type="text"/>
Secondary DNS Server:	<input type="text"/>

Helpful Hints...

The IPv6 address is 128 bits, with a default 64 bit prefix that defines the network and is common among all LAN hosts. Changes here affect all devices connected to the router's LAN switch. Note that a change to the default LAN IP address will require all LAN hosts to be in the same network prefix and use the new address to access this GUI.

[More...](#)

(4)

You need to IPv6 static routes!

Destination should be remote LAN IPv6 address.

Gateway address should be remote endpoint WAN IP address.

The screenshot shows the D-Link DSR-1000N web interface. The top navigation bar includes 'Product Page: DSR-1000N', 'Hardware Version: A1', and 'Firmware Version: 1.03B67_WW'. The main header features the D-Link logo. Below the header is a navigation menu with tabs for 'DSR-1000N', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'IPv6' selected. The main content area is titled 'STATIC ROUTING' and includes a 'LOGOUT' link. A message states: 'This page allows user to add a static IPv6 route.' Below this are 'Save Settings' and 'Don't Save Settings' buttons. The 'IPv6 Static Route Configuration' section contains the following fields: 'Route Name' (text input: 'ipv4'), 'Active' (checkbox: checked), 'IPv6 Destination' (text input: '2001::'), 'IPv6 Prefix Length' (text input: '64'), 'Interface' (dropdown menu: 'sit0 Tunnel'), 'IPv6 Gateway' (text input: '::200.11.11.1'), and 'Metric' (text input: '10'). A red box highlights the 'Active', 'IPv6 Destination', 'IPv6 Prefix Length', and 'IPv6 Gateway' fields. On the right, a 'Helpful Hints...' section provides instructions on entering destination address, subnet mask, gateway, and metric, and mentions the interface dropdown menu. The footer of the interface reads 'UNIFIED SERVICES ROUTER'.

(5) Enable "automatic tunneling" function.

The screenshot shows the D-Link DSR-1000N web interface. The top navigation bar includes 'Product Page: DSR-1000N', 'Hardware Version: A1', and 'Firmware Version: 1.03B67_WW'. The main header features the D-Link logo. Below the header is a navigation menu with tabs for 'DSR-1000N', 'SETUP', 'ADVANCED', 'TOOLS', 'STATUS', and 'HELP'. The left sidebar lists various configuration options, with 'IPv6' selected. The main content area is titled '6 TO 4 TUNNELING' and includes a 'LOGOUT' link. A message states: 'This page allows user to enable/disable the 6 to 4 tunneling.' Below this are 'Save Settings' and 'Don't Save Settings' buttons. The 'Enable Automatic Tunneling' section contains a checkbox labeled 'Enable Automatic Tunneling' which is checked. A red box highlights this checkbox. On the right, a 'Helpful Hints...' section explains that this option enables IPv4 address information in IPv6 addresses on the LAN, which is common in networks using both IPv4 and IPv6 nodes. The footer of the interface reads 'UNIFIED SERVICES ROUTER'.