
IPv6 CPE Device Development and Deployment

**RIPE 63 – Vienna, Austria
Nov. 1st 2011**



D-Link IPv6 Development

- ◆ 2003/12 Receive the first IPv6 Ready Logo (Phase-1)
- ◆ 2006/5 Receive the first IPv6 Ready Logo (Phase-2)
- ◆ 2008/7 Ship the first IPv6 Ready CPE to the retail
- ◆ 2010/5 Participate and Pass Cablelabs' IPv6 Interop Test Event
- ◆ 2011/5 Participate and pass UNH-IOL IPv6 Interop Test Program
- ◆ 2011/5 Received the first IPv6 Ready Logo (DHCPv6 Server)
- ◆ 2006 – 2011 More than 23 consumer Router and AP devices are certified with IPv6 Ready Logo Phase-2



UNH-IOL IPv6 CE test Event



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CE Router Tested List

The routers listed below have demonstrated their commitment to support **World IPv6 Day - 8 June 2011** by performing IPv6 testing at the UNH-IOL. See below for test specification information.

This list contains information about CE Router Products that have performed the IPv6 Ready Logo CE Router Interoperability [Test Scenario](#) at the UNH-IOL.

CE Router Logo Information (Launch Date November 2011):

- Requires 100% pass for both Conformance and Interoperability Test Specifications
- Conformance Test Specification Status: Public Release July 2011
- Interoperability Test Scenario Status: Released as above

The following devices performed all the test cases successfully.

Company	Product	Product Version	Test Scenario Version	Date Listed
Broadcom	BGM 68000 WRG	S.G.Galpa00	1.0.0.b1	5/31/11
D-Link	DIR-652	v.1.5	1.0.0.b4	5/31/11



IPv6

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Related Technologies

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D-Link
Building Networks for People

D-Link Router IPv6 Support

◆ Tunneling

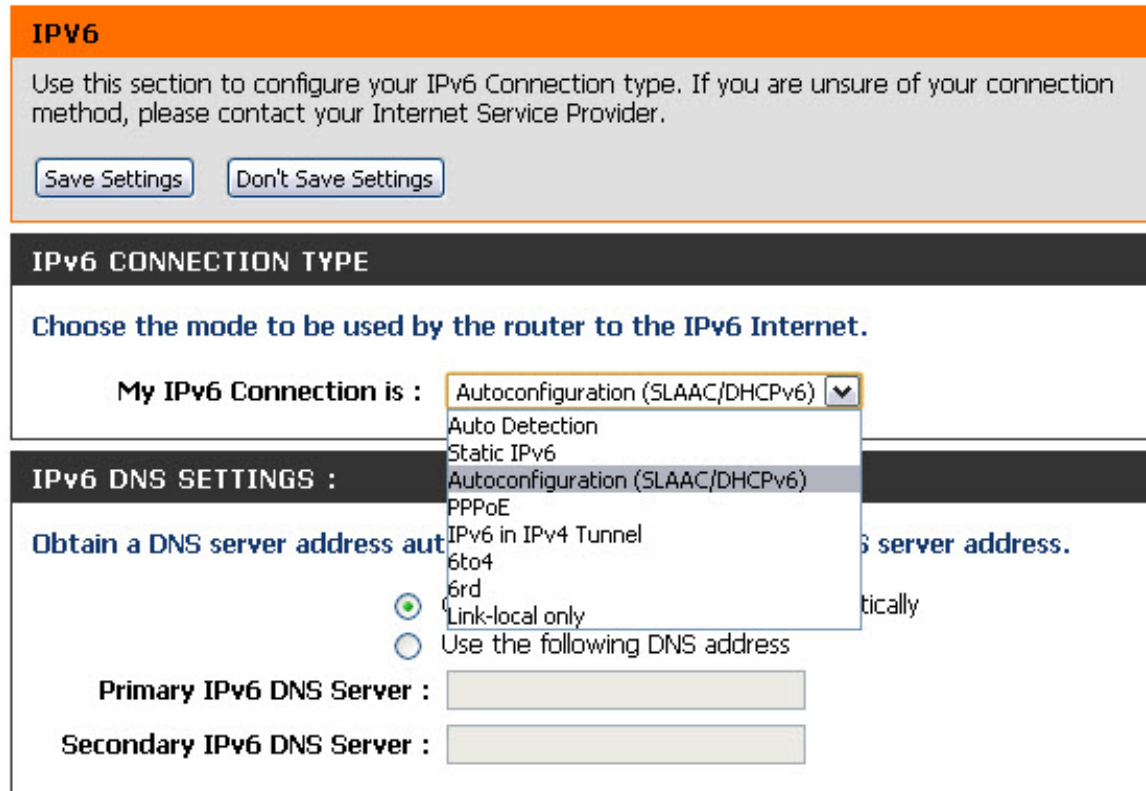
- IPv6 in IPv4 Tunneling
- 6to4 Tunneling
- 6rd Tunneling
 - DHCP Option for 6rd
- Teredo passthrough

◆ Native Dual Stack

- Static IPv6 and route
- DHCPv6 / DHCPv6-PD
- Autoconfiguration
- IPv6 over PPP

◆ DS-Lite (Dual-Stack Lite)

- DHCPv6 Option for DS-Lite



IPv6

Use this section to configure your IPv6 Connection type. If you are unsure of your connection method, please contact your Internet Service Provider.

IPv6 CONNECTION TYPE

Choose the mode to be used by the router to the IPv6 Internet.

My IPv6 Connection is : ▼

- Auto Detection
- Static IPv6
- Autoconfiguration (SLAAC/DHCPv6)
- PPPoE
- IPv6 in IPv4 Tunnel
- 6to4
- 6rd
- Link-local only
- Use the following DNS address

IPv6 DNS SETTINGS :

Obtain a DNS server address automatically Use the following DNS address

Primary IPv6 DNS Server :

Secondary IPv6 DNS Server :

D-Link Router IPv6 Support

- ◆ Web IPv6 Diagnostic Tool
- ◆ Manual IPv6 Firewall
- ◆ IPv6 Static Route
- ◆ IPv6 RA Option for RDNS
- ◆ IPv6 RA Option for DNSSL
- ◆ IPv6 LLMNR and Bonjour
- ◆ DHCP-PD in LAN
- ◆ ULA Support
- ◆ IPv6 DDNS*
- ◆ TR-069/TR-181i2
- ◆ Simple Security (RFC 6092)
- ◆ IPv6 UPnP Support

IPv6 FIREWALL RULES

The Firewall settings section is an advance feature used to allow or deny traffic from passing through the device. It works in the same way as IP Filters with additional settings. You can create more detailed rules for the device.

Save Settings

Don't Save Settings

IPv6 SIMPLE SECURITY

Enable IPv6 Simple Security:



IPv6 FIREWALL RULES

Configure IPv6 Firewall below:

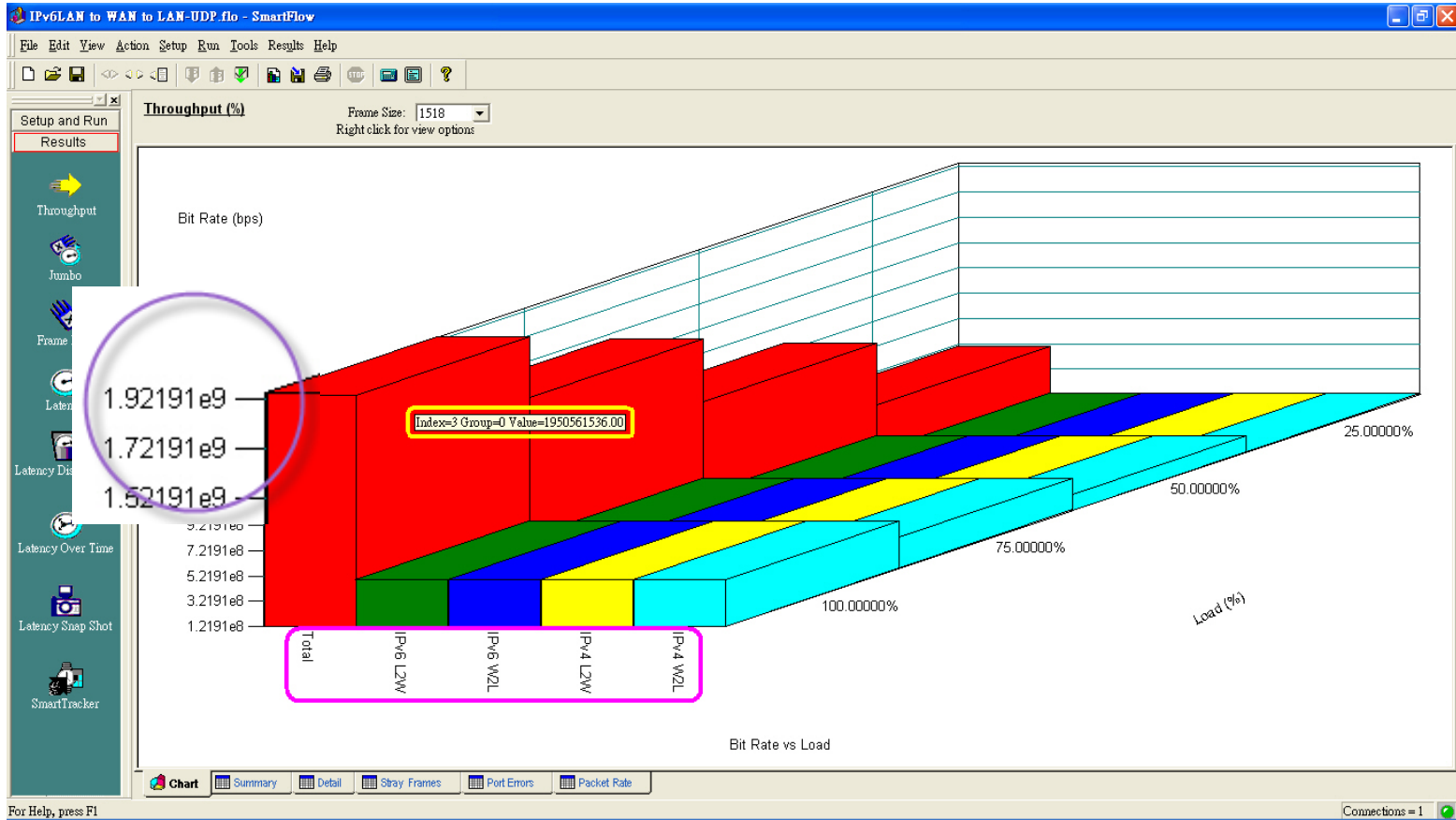
Turn IPv6 Firewall OFF

Remaining number of firewall rules that can be configured:

	Name	Schedule		
1.	<input type="text"/>	Always		
<input type="checkbox"/>	Source	Interface	IP Address Range	Protocol
	*	*	<input type="text"/>	TCP
	Dest	Interface	IP Address Range	Port Range
	*	*	<input type="text"/>	1 ~ 65535

D-Link True Gigabit Connectivity

- ◆ D-Link drives wire-speed IPv6 routing performance into homes.
- ◆ Up to 2Gbps IPv4 NAT/IPv6 Routing performance in selected models.



Promote IPv6 to Home Users

- ◆ D-Link drives IPv6 into retail markets and promotes IPv6 directly to home users.
- ◆ Most completed IPv6 support, in high-end models as well as entry-level models.
- ◆ More than **10,000,000** units of D-Link IPv6 ready routers have been sold.



IPv6 Certified Router

IPv6 Support:

- ◆ All new shipping router models will all be “IPv6 Ready Phase II” certified.

IPv6 Ready Logo Phase II Certified Models:

◆ Certified



DIR-300 B1
Wireless 150



DIR-600 A1
*Wireless N 150
Home Router*



DIR-601 A1
Wireless N 150



DIR-615 C1/C2
Wireless N Router



DIR-615 E1/E2/E3/E4
Wireless N Router



DIR-652 A1
*Gigabit Home
Router*



DIR-655 B1
*XTREME N
Gigabit Router*



DIR-825 B1
*Xtreme N Dual Band
Gigabit Router*

IPv6 Certified Router (Cont.)

IPv6 Ready Logo Phase II Certified Models:

◆ Certified



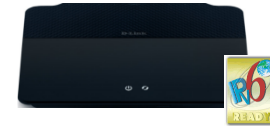
EBR-2310 C1
Ethernet Router



DIR-632 A1
Wireless N
8-Port Router



DIR-815 A1
Wireless N
Dual Band Router



DIR-657
HD Media
Router 1000

◆ Certified

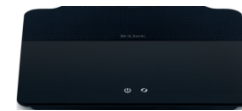


DIR-645
Whole Home
Router 1000



DIR-835
N750 Router

◆ Q4/2011



DIR-827
HD Media
Router 2000

IPv6 Ready Access Point

IPv6 Support:

- ◆ New AP models will all be “IPv6 Ready Phase II” certified.

IPv6 Ready AP Roadmap:

◆ Certified



◆ Certified



◆ Q4/2011



IPv6 Ready PowerLine

IPv6 Support:

- ◆ New wireless PowerLine models will all be “IPv6 Ready Phase II” certified.

IPv6 Ready PowerLine Roadmap:

◆ Certified



DHP-W306AV
PowerLine AV
Wireless N Extender



DHP-1320 A1
Wireless N
PowerLine Router

◆ Q4/2011



DHP-1565 A1
Wireless N
PowerLine
Gigabit Router

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