IPv6 in the Caribbean
Grenada – The Ist Island with many Native IPv6 Achievements

Ist Eastern Caribbean Nation to have an IPv6 Forum Chapter.
Ist Island to have native IPv6 Connectivity (Columbus communications Grenada).

http://www.ipv6forum.com/ipv6_enabled/isp/approval_list.php?type=loc&content=gd

By Brent Mc Intosh
www.6brent.info

First and Second Native IPv6 Websites Grenada and possibly the Caribbean

IPv6 validation for http://www.6brent.info

AAAA DNS record	✔	2001:1808:b701:7::2012
IPv6 web server	✔	Microsoft-IIS/7.5
IPv6 DNS server	✔	ns2.he.net,ns3.he.net,ns4.he.net,ns5.he.net

Congratulations, this website is IPv6 ready

IPv6 validation for http://www.ipv6forum.gd

AAAA DNS record	✔	2001:1808:b300:8::2012
IPv6 web server	✔	Microsoft-IIS/7.0
IPv6 DNS server	✔	ns2.he.net,ns3.he.net,ns4.he.net,ns5.he.net

www.ipv6forum.gd/www.6brent.info

Websites in World IPv6 Day/launch Participation - 1ˢᵗ in the Caribbean

Show

100

entries

Search:

www.ipv6forum

Organisation	Country	IPv6 Page	Website	Alexa Rank ▲	Date Joined
IPv6 Forum	Luxembourg	🔗	http://www.ipv6forum.com/	534803	17 Feb 2012
IPv6 Forum Singapore	Singapore	🔗	http://www.ipv6forum.sg	12304720	04 May 2012
IPv6 Forum Grenada	Grenada		http://www.ipv6forum.gd	13024410	20 Mar 2012
IPv6 Forum Mexico	Mexico	🔗	http://www.ipv6forum.com.mx	9100719	27 Apr 2012

Showing 1 to 4 of 4 entries (filtered from 3,002 total entries)

Show

100

entries

Search:

www.6brent.info

Organisation	Country	IPv6 Page	Website	Alexa Rank ▲	Date Joined
MCNET- Solutions (6brent)	Grenada		http://www.6brent.info	9894738	16 Feb 2012

Showing 1 to 1 of 1 entries (filtered from 3,002 total entries)

Testing to Native IPv6: Speed Test

IPv4 speed

Address	🇺🇸 63.245.30.25
ISP	Columbus Networks USA
Speed	**11.1 Mbit/s**

IPv6 speed

Address	🇬🇩 2001:1808:b701:7::2012
ISP	Columbus Communications Grenada Ltd.
Speed	**10.3 Mbit/s**

Your speed test results

IPv4 — 11.1 Mbit/s
IPv6 — 10.3 Mbit/s

0M 2M 4M 6M 8M 10M 12M 14M
Speed (bps)
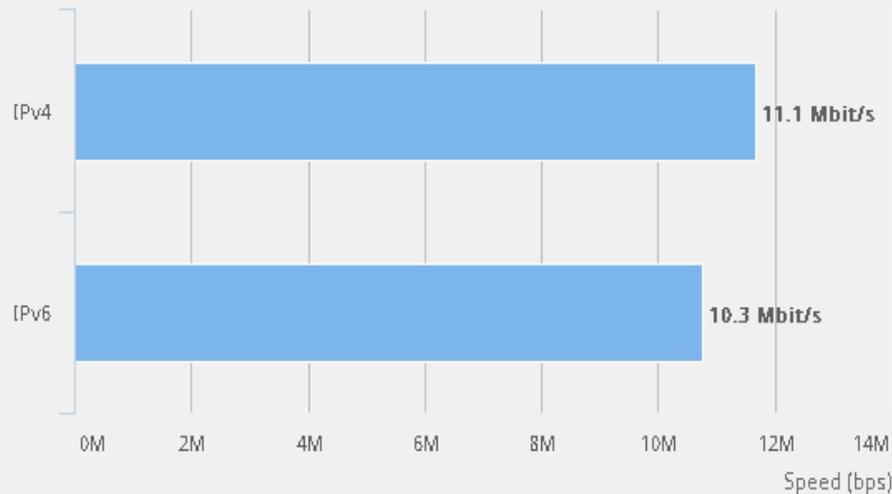
⟲ Share your results

Testing to Native IPv6 Websites In Grenada

Ist Ipv6 Email Server in the Caribbean.

Mail Test for; mail.6brent.info

Getting MX Servers for mail.6brent.info from local DNS Server

MX Server	Preference	Time to Live
mail.6brent.info	10	1800 [30 Minutes]

Resolving MX Servers

MX Server	IP Address	Reverse DNS	Country
mail.6brent.info	2001:1808:b701:7::2012	Unknown	Grenada

Connecting to Mail Servers

MX Server	IP Address	Response
mail.6brent.info	2001:1808:b701:7::2012	SMTP Error: 530 SMTP authentication is required..

```
IPv6 addresses for incoming mail servers
[20140508:062715.509] Getting MX records for 6brent.info...
[20140508:062715.535]    6brent.info
[20140508:062715.535] Getting IPv6 addresses for 6brent.info
[20140508:062715.557]    2001:1808:b701:7:0:0:0:2012
1 of 1 MX servers have IPv6 addresses

Mail server IPv6 connectivity
[20140508:062715.586] Connecting to 6brent.info [2001:1808:b701:7:0:0:0:2012]...
[20140508:062716.105]    mail.6brent.info ESMTP
All IPv6 mail servers responded
```

1st Ipv6 Email Server in the Caribbean.

From: bouncer@freenet6.net (Freenet6 Bouncer)

Congratulations, your mail system is IPv6 enabled!

Below comes info about the email that triggered this reply.

Your email was received at: Thu May 8 01:29:42 EDT 2014

Here is the path of your email before reaching the bouncer:

Received: from mail.6brent.info (unknown [IPv6:2001:1808:b701:7::2012])
      by music.gogo6.com (Postfix) with SMTP id E853798149
      for <bouncer@freenet6.net>; Thu, 8 May 2014 01:29:41 -0400 (EDT)
Received: from [IPv6:2001:1808:b701:7::2012] ([2001:1808:b701:7::2012]) by
 mail.6brent.info ; Thu, 8 May 2014 01:29:07 -0400

Successful FTP over IPv6 On Windows


```
C:\Windows\system32\cmd.exe - ftp  2001:470:8:c81::100

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\bmcintosh>ftp 2001:470:8:c81::100
Connected to 2001:470:8:c81::100.
220 Xlight FTP Server 3.6 ready...
User (2001:470:8:c81::100:(none)): anonymous
331 Anonymous login OK, send your e-mail as password
Password:
230 Login OK
ftp> ls
200 PORT command successful
150 Opening ASCII mode data connection for NLIST (73 bytes).
IPv6 Cheat sheet 2.pdf
ipv6-address-types.pdf
ipv6_cheat_sheet(1).pdf
226 Transfer complete (0.453 KB/s).
ftp: 73 bytes received in 0.00Seconds 73.00Kbytes/sec.
ftp> hash
Hash mark printing On  ftp: (2048 bytes/hash mark) .
ftp> bin
200 Type set to I.
ftp>
```

Successful RDP and HTTPS access to hosts

Achievements 2010-2014

- IPv6 Transit , Peering IPv6 On the Grenada Exchange GREX
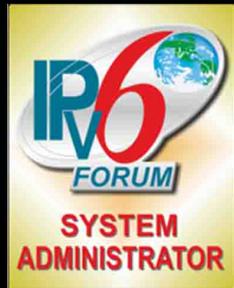
- Native IPv6 Internet Access availability from Access Network.

- Content Caching Akamai/Google over IPv4/v6

- IPv6Forum Certified ISP (GRENADA/CURACAO)

- IPv6Forum Certified Engineers/System Administrator (Gold & Silver)

- IPv6 Email Service and Websites by Local users.

L-root Server on GRENADA IXP

```
C:\>tracert -6 l.root-servers.net

Tracing route to l.root-servers.net [2001:500:3::42]
over a maximum of 30 hops:

  1     1 ms    <1 ms     <1 ms   2001:1808:b200:2012::1
  2     1 ms     1 ms      1 ms   2001:1808:1:1:63:245:66:84
  3     1 ms    <1 ms     <1 ms   l.root-servers.net [2001:500:3::42]

Trace complete.
```

IPv4/IPv6 Looking glass in the Caribbean
Telnet://netpeek.grex.gd

```
CCCC
GRENADA INTERNET EXCHANGE (GREX) NTRC DATA CENTER
              ROUTER SERVER 1
                ASN 14432
                206.126.244.6
           2001:504:35::206:126:244:6
-----------------------------------------------------------------------
                      IPv4 Peers

 peer#1 Columbus Communications Grenada  - 63.245.66.82  ASN 46650
 peer#2 Columbus Communications Grenada  - 206.126.244.2 ASN 46650
 peer#2 BGPMon.net                       - 23.21.175.186 ASN 65179


-----------------------------------------------------------------------
                      IPv6 Peers

 peer#1 Columbus Communications Grenada - 2001:1808:1:1:63:245:66:82 ASN 46650
 peer#2  Hurricane Electric  - 2001:470:10:93::1    ASN 6939
 Peer#3  BGPMon.net       -     2001:470:7:12C7::2    ASN 65179
-----------------------------------------------------------------------
 The information available through route-server.ipv6forum.gd is offered
by the GREX technical working group to the Internet community.

This router maintains eBGP peerings with customer-facing routers
throughout the Columbus Communications and Cable & Wireless IP Services Backbone.


For questions about this route-server, send email to: tech-support@grex.gd

*** Log in with username 'rviews', password 'rviews' ***


-----------------------------------------------------------------------
rs1-grex.gd>
```

IPv6 Route Propagation: Grenada

AS Info | Graph v4 | Graph v6 | Prefixes v4 | Prefixes v6 | Peers v4 | Peers v6 | Whois | IRR

AS46650 IPv6 Route Propagation

AS46650 → AS23520 → AS6939

AS3257
AS3356
AS1299
AS2914

AS2497
AS1273
AS7018
AS209
AS3549
AS6453
AS6762
AS701
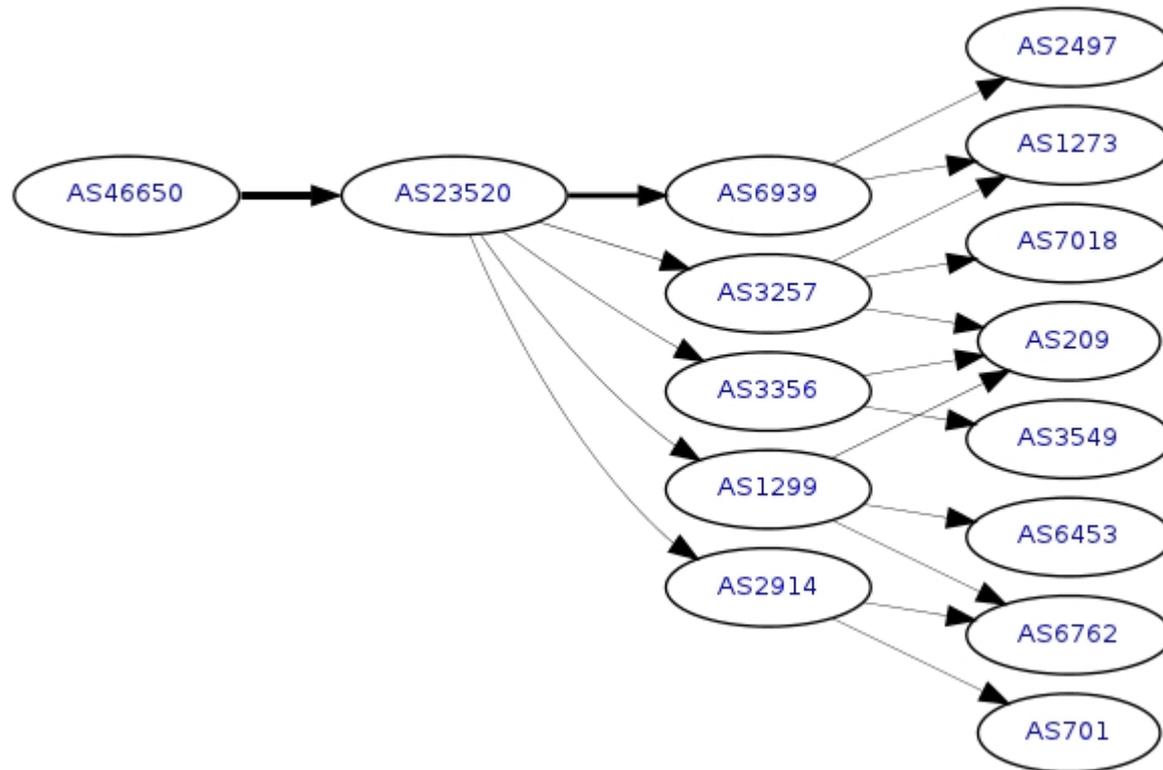
Ist Caribbean IPv6 Speaker (ISOC) Brent Mc Intosh

Mr. Brent McIntosh

Regional Manager Network Services

Columbus Communications Southern Caribbean

Mr. McIntosh has worked in the telecommunications industry for over 12 years. He presently oversees the operations of Information Technology, Networking and Telecommunications systems and infrastructure.

Read full bio ▶

Mr. Shernon Osepa

Manager, Regional Affairs for Latin America & the Caribbean Bureau

Internet Society

Mr. Shernon Osepa is the Manager, Regional Affairs for Latin America & the Caribbean Bureau of the Internet Society.

Read full bio ▶

Mr. Christian O'Flaherty

Senior Development Manager for Latin America Bureau

Internet Society

Christian O' Flaherty joined the Internet Society as Senior Education Manager in July 2009, where his work focuses on promoting Internet access, growth, and sustainability in Latin American and the Caribbean.

Read full bio ▶

Ms. Christine Runnegar

Director, Public Policy

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Christine Runnegar is Director of Public Policy at the Internet Society, based in Geneva, Switzerland. Her current areas of interest include online privacy, security and identity. Christine contributes to the OECD's work on privacy through the Internet Technical Advisory Committee (ITAC) and APEC's work on the Cross Border Privacy Rules (CBPR) System through the APEC ECSG Data Privacy Sub-Group (DPS).

Read full bio ▶