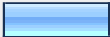
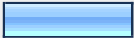

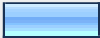

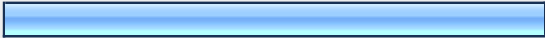

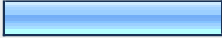











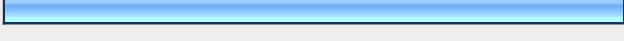
Peering Survey 2008


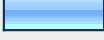



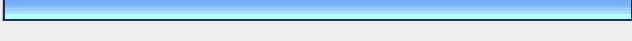
1. What type of network do you run?			Response Percent	Response Count
Transit			27.5%	53
Content			29.5%	57
Eyeball			16.1%	31
Research			6.2%	12
Heavy Inbound			6.7%	13
Heavy Outbound			3.6%	7
Other			10.4%	20
			ASN (optional)	74
			answered question	193
			skipped question	1

2. Do you use IPv4 unicast BGP peering?			Response Percent	Response Count
All Locations			86.0%	166
Some Locations			7.3%	14
Plans This Year			3.6%	7
Decided Against It			1.0%	2
Not Supported On My Gear			1.0%	2
No Plans			3.1%	6
			Comment	1
			answered question	193
			skipped question	1

3. Do you use IPv4 multicast BGP peering?			Response Percent	Response Count
All Locations			11.4%	22
Some Locations			14.0%	27
Plans This Year			4.7%	9
Decided Against It			10.4%	20
Not Supported On My Gear			3.1%	6
No Plans			59.6%	115
			Comment	5
			answered question	193
			skipped question	1



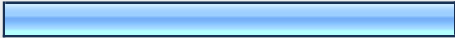



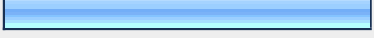


4. Do you use IPv6 unicast BGP peering?			Response Percent	Response Count
All Locations			22.8%	44
Some Locations			23.8%	46
Plans This Year			22.8%	44
Decided Against It			4.1%	8
Not Supported On My Gear			3.1%	6
No Plans			25.4%	49
			Comment	8
			answered question	193
			skipped question	1

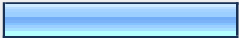
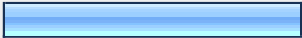
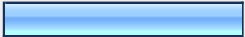
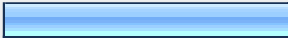

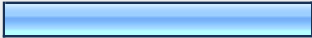
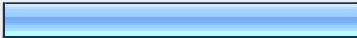
5. Do you use IPv6 multicast BGP peering?			Response Percent	Response Count
All Locations			2.6%	5
Some Locations			8.8%	17
Plans This Year			9.8%	19
Decided Against It			7.3%	14
Not Supported On My Gear			5.7%	11
No Plans			68.4%	132
			Comment	5
			answered question	193
			skipped question	1

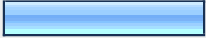

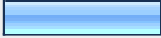
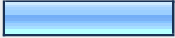



6. Do you use MSDP peering?			Response Percent	Response Count
All Locations			7.8%	15
Some Locations			10.9%	21
Plans This Year			1.6%	3
Decided Against It			7.8%	15
Not Supported On My Gear			5.7%	11
No Plans			69.4%	134
			Comment	4
			answered question	193
			skipped question	1


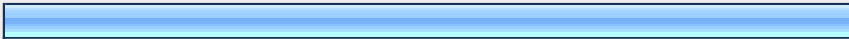
7. Do you use BFD?				
			Response Percent	Response Count
Public Peering (LAN)			4.7%	9
Private Peering (PNI)			4.1%	8
Customer Peering			4.1%	8
Internal Network			25.4%	49
Plans This Year			13.0%	25
Decided Against It			6.7%	13
Not Supported On My Gear			4.7%	9
No Plans			52.3%	101
			Comment	8
			answered question	193
			skipped question	1





8. Do you use CDP or LLDP (802.1AB)?				
			Response Percent	Response Count
Public Peering (LAN)			3.1%	6
Private Peering (PNI)			4.7%	9
Customer Peering			3.6%	7
Internal Network			34.7%	67
Plans This Year			1.6%	3
Decided Against It			23.8%	46
Not Supported On My Gear			6.2%	12
No Plans			34.2%	66
			Comment	3
			answered question	193
			skipped question	1

9. Do you use BGP communities?			
		Response Percent	Response Count
Send Them To Public Peers		41.4%	70
Send Them To Private Peers		44.4%	75
Send Them To Customer Peers		49.7%	84
Accept Them From Public Peers		48.5%	82
Accept Them From Private Peers		50.9%	86
Accept Them From Customer Peers		54.4%	92
Standard Communities (RFC 1997)		40.2%	68
Extended Communities (RFC 4360)		29.0%	49
No		10.7%	18
		Comment	4
		<i>answered question</i>	169
		<i>skipped question</i>	25


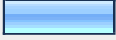
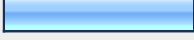

10. Do you use BGP MEDs?			
		Response Percent	Response Count
Send Them To Public Peers		25.4%	43
Send Them To Private Peers		32.5%	55
Send Them To Customer Peers		26.0%	44
Accept Them From Public Peers		31.4%	53
Accept Them From Private Peers		32.5%	55
Accept Them From Customer Peers		33.7%	57
No		39.1%	66
Comment			5
answered question			169
skipped question			25

11. Do you change BGP path attributes (AS path, origin, etc)?			
		Response Percent	Response Count
To Public Peers		21.9%	37
To Private Peers		20.1%	34
To Customer Peers		17.2%	29
From Public Peers		18.3%	31
From Private Peers		18.3%	31
From Customer Peers		20.7%	35
No		59.8%	101
Comment			10
answered question			169
skipped question			25


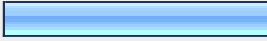



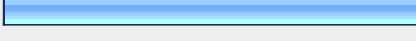
12. Do you change the BGP next hop to a network you do not peer with?			Response Percent	Response Count
Yes			6.5%	11
No			93.5%	158
			Comment	3
			<i>answered question</i>	169
			<i>skipped question</i>	25

13. Do you use MD5 signatures (RFC 2358) for BGP?			Response Percent	Response Count
I Insist			10.7%	18
I Recommend It			37.3%	63
I Will If The Other Peer Wants			55.6%	94
I Refuse			4.7%	8
			Comment	12
			<i>answered question</i>	169
			<i>skipped question</i>	25

14. Route refresh (RFC 2918) is enabled by default on most routers these days. Do you actually use it?

		Response Percent	Response Count
Yes		58.6%	99
No		11.8%	20
Not Sure		20.7%	35
Don't Know What This Is		9.5%	16
Comment			3
answered question			169
skipped question			25





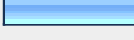



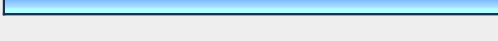
15. Do you use the GTSM (RFC 3682) for BGP?

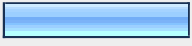
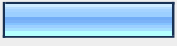
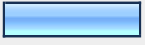
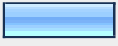




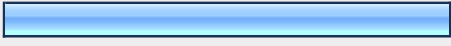
		Response Percent	Response Count
Yes		8.9%	15
Don't Know What This Is		29.0%	49
Plans This Year		8.9%	15
Decided Against It		5.3%	9
Not Supported On My Gear		5.3%	9
No Plans		45.6%	77
Comment			7
answered question			169
skipped question			25

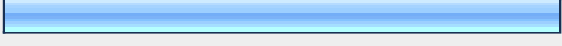

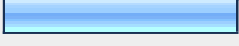
16. Do you use four byte ASNs (RFC 4893)?			Response Percent	Response Count
Yes			10.1%	17
AS23456 Only			10.1%	17
Don't Know What This Is			3.6%	6
Plans This Year			18.3%	31
Decided Against It			0.6%	1
Not Supported On My Gear			28.4%	48
No Plans			36.7%	62
			Comment	10
			answered question	169
			skipped question	25

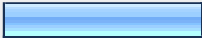
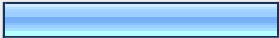
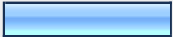
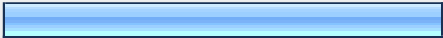

17. Do you use BGP graceful restart (RFC 4724)?			Response Percent	Response Count
Public Peering			28.4%	48
Private Peering			30.8%	52
Customer Peering			25.4%	43
Internal Peering			37.3%	63
Don't Know What This Is			8.3%	14
Plans This Year			10.1%	17
Decided Against It			4.7%	8
Not Supported On My Gear			8.3%	14
No Plans			27.2%	46
			Comment	1
			answered question	169
			skipped question	25



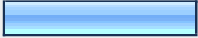

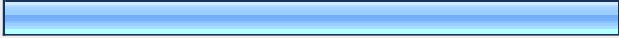
18. Do you use BGP flow specifications (draft-marques-idr-flow-spec) for blackhole route exchange?

		Response Percent	Response Count
Public Peering		4.7%	8
Private Peering		5.3%	9
Customer Peering		8.3%	14
Internal Peering		10.1%	17
Don't Know What This Is		14.2%	24
Plans This Year		8.9%	15
Decided Against It		3.6%	6
Not Supported On My Gear		8.3%	14
No Plans		54.4%	92
		Comment	2
		<i>answered question</i>	169
		<i>skipped question</i>	25



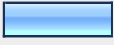
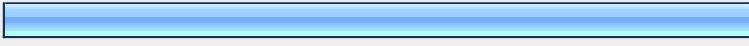
19. Do you use BGP Outbound Route Filtering Capability (draft-ietf-idr-route-filter)?			Response Percent	Response Count
Public Peering			20.1%	34
Private Peering			18.3%	31
Customer Peering			14.8%	25
Internal Peering			11.8%	20
Don't Know What This Is			13.6%	23
Plans This Year			4.7%	8
Decided Against It			3.0%	5
Not Supported On My Gear			7.1%	12
No Plans			49.1%	83
		Comment		1
		answered question		169
		skipped question		25

20. What is the largest frame size you use on peering links?			Response Percent	Response Count
1518 Bytes			61.4%	94
4470 Bytes			17.6%	27
9216 Bytes			25.5%	39
		Comment or Other Sizes		15
		answered question		153
		skipped question		41

21. How do you prefer to load balance over multiple links?			Response Percent	Response Count
Static LAG			21.6%	33
Dynamic LAG (802.3ad)			30.1%	46
IBGP Multipath			18.3%	28
EBGP Multipath			48.4%	74
EBGP Multihop			27.5%	42
			Comment	8
			answered question	153
			skipped question	41

22. Do you advertise deaggregates to peers?			Response Percent	Response Count
Public Peers			17.6%	27
Private Peers			18.3%	28
Customer Peers			20.9%	32
With A "no-export" Community			11.1%	17
No			68.0%	104
			Comment	11
			answered question	153
			skipped question	41

23. Do you static route any networks or aggregates to peers?

		Response Percent	Response Count
Public Peers		6.5%	10
Private Peers		5.9%	9
Customer Peers		11.8%	18
No		82.4%	126
Comment			8
answered question			153
skipped question			41

24. What is your biggest concern when deploying a new feature? Choose one answer for each Most ... Least column.

	Most				Least	Rating Average	Response Count
Stability (Somebody set us up the bomb.)	65.4% (100)	11.1% (17)	3.3% (5)	6.5% (10)	13.7% (21)	1.92	153
Scalability	9.8% (15)	39.9% (61)	22.9% (35)	23.5% (36)	3.9% (6)	2.72	153
Interaction Other Features	5.9% (9)	19.0% (29)	34.0% (52)	24.2% (37)	17.0% (26)	3.27	153
Interoperability	8.5% (13)	19.6% (30)	27.5% (42)	32.0% (49)	12.4% (19)	3.20	153
Being Forced To Upgrade Software	10.5% (16)	10.5% (16)	12.4% (19)	13.7% (21)	52.9% (81)	3.88	153
Comment							7
answered question							153
skipped question							41