

Protocol	Category	Jan 2011		Sep 2011		Jan 2012		Sep 2012	
		GBs / day	Percentage	GBs / day	Percentage	GBs / day	Percentage	GBs / day	Percentage
All Traffic		710.2	100.0	622.6	100.0	656.9	100.0	635.8	100.0
HTTP	Web	469.3	68.7	441.3	72.3	465.4	70.9	377.9	59.4
BitTorrent UDP	P2P Structure	55.8	8.2	38.0	6.2	36.1	5.5	62.8	9.9
BitTorrent	P2P	54.3	8.0	15.8	2.6	20.5	3.1	17.9	3.4
Unknown TCP	Unknown	26.7	3.8	12.3	2.0	16.0	2.4	21.7	3.4
RTMP	Streaming	20.8	3.0	24.6	4.0	24.9	3.8	13.5	2.1
HTTPS	Web	11.2	1.6	24.3	4.0	32.7	5.0	57.0	9.0
Steam	Gaming	10.2	1.5	12.7	2.1	9.4	1.4	4.9	0.8
Skype	VOIP	9.1	1.3	11.9	1.9	11.9	1.8	23.0	3.6
Unknown UDP	Unknown	9.1	1.3	7.2	1.2	7.0	1.1	20.5	3.2
SSL / TLS	Encryption	7.3	1.0	0.4	0.1	0.4	0.1	0.2	< 0.1
Xbox Live	Gaming	3.0	0.4	1.7	0.3	2.6	0.4	1.8	0.3
NNTP	News	2.9	0.4	1.4	0.2	< 0.1	< 0.1	1.0	0.1
IMAPS	Mail	2.8	0.4	2.7	0.4	2.9	0.4	3.0	0.5
Gnutella UDP	P2P Structure	2.0	0.3	0.1	< 0.1	0.1	< 0.1	< 0.1	< 0.1
STUN	NAT Traversal	1.4	0.2	1.0	0.2	1.1	0.2	1.7	0.3
FTP Data	Files	1.1	0.2	2.4	0.4	3.9	0.6	1.6	0.2
Teredo	Tunneling	0.9	0.1	2.1	0.3	1.5	0.2	4.0	0.6
NNTPS	News	0.5	0.1	0.0	0.0	0.7	0.1	1.9	0.3
SSH	Remote	0.4	0.1	0.7	0.1	1.0	0.2	1.2	0.2
ESP	Tunneling	0.4	0.1	0.5	0.2	1.3	0.2	1.2	0.2
OpenVPN	Tunneling	< 0.01	< 0.1	1.4	0.2	1.6	0.2	0.3	< 0.1

Table 1: Bytes downloaded by DSL subscribers that matched each application protocol. “Percentage” refers to the proportion of traffic in the trace set that matched the protocol.

Protocol	Category	Jan 2011		Sep 2011		Jan 2012		Sep 2012	
		GBs / day	Percentage	GBs / day	Percentage	GBs / day	Percentage	GBs / day	Percentage
All Traffic		107.1	100.0	79.5	100.0	90.9	100.0	125.3	100.0
BitTorrent	P2P	22.5	21.0	6.0	7.5	8.3	9.0	5.7	4.5
HTTP	Web	20.5	19.1	19.2	24.1	17.9	19.7	26.4	21.1
BitTorrent UDP	P2P Structure	17.9	16.7	8.7	11.0	11.0	12.1	17.7	14.1
Unknown TCP	Unknown	10.2	9.5	3.4	4.2	4.4	4.9	7.6	6.1
Skype	VOIP	9.7	9.0	11.0	13.9	11.2	12.3	16.4	13.0
HTTPS	Web	6.5	6.1	12.5	15.7	19.6	21.5	28.4	22.7
Unknown UDP	Unknown	4.1	3.9	2.9	3.6	3.9	4.3	3.7	2.9
Xbox Live	Gaming	2.8	2.7	1.5	1.9	2.5	2.7	1.6	1.2
SSL / TLS	Encryption	1.9	1.8	0.9	1.1	1.0	1.1	0.1	0.1
RDP	Remote	1.5	1.4	2.0	2.5	2.0	2.2	6.1	4.8
STUN	NAT Traversal	1.0	1.0	1.3	1.7	1.0	1.1	1.6	1.3
Emule	P2P	0.8	0.7	0.0	0.0	< 0.1	< 0.1	< 0.1	< 0.1
iMesh UDP	P2P	0.6	0.6	0.1	0.2	0.1	0.1	< 0.1	< 0.1
Teredo	Tunneling	0.5	0.4	0.8	1.0	1.9	2.1	1.6	1.3
RTMP	Streaming	0.2	0.2	0.7	0.9	0.7	0.8	0.6	0.5
IMAPS	Mail	0.1	0.1	0.3	0.3	0.2	0.3	0.6	0.5

**Table 2: Bytes transmitted by DSL subscribers that matched each application protocol. “Percentage” refers to the proportion of traffic in the trace set that matched the protocol.**