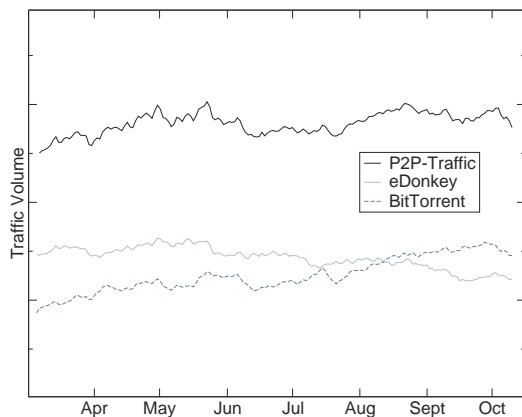


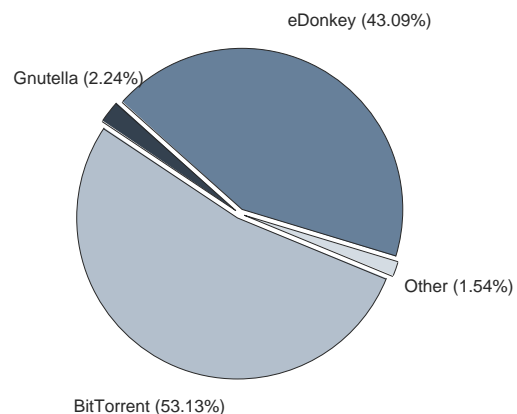
P2P Survey 2006 – Extended Abstract

ipoque has observed and analyzed the user behavior in the most popular P2P networks used for file sharing between April and October 2006. Depending on the time of day, P2P has a proportion between 30% (daytime) and 70% (nighttime) of the complete Internet traffic in Germany. The absolute value of P2P data volume has increased by 10% between June and October. BitTorrent has passed eDonkey in popularity. Together they are responsible for more than 95% of all P2P traffic and have nearly displaced older networks. The most popular files are still current movies, music and computer games, but to a growing extent also books and audio books. A significant proportion still is pornographic content.

P2P traffic still on the rise – with a 30 to 70% share of the overall Internet traffic



File sharing based on P2P traffic consumes a share of about 30% during the day and 70% during the night of the overall Internet traffic. The large difference is due to the high day-night fluctuation of most other traffic, which is much weaker for P2P. The above graph shows that the absolute P2P traffic volume has seen an increase of about 10% between June and October. BitTorrent has surpassed eDonkey and is now Germany's most popular file sharing network generating more than half of all P2P traffic. Both networks combined are responsible for more than 95% of the P2P traffic and have virtually displaced older networks.



Videos generate most traffic

The survey is based on analysis of anonymous Internet traffic data collected at network level. The data represent about 100,000 households in Germany. The following table shows the data volume per content type for BitTorrent and eDonkey in Germany in October 2006.

Category	BitTorrent	eDonkey
Video	71.13%	67.87%
Audio	7.79%	8.77%
Software	20.74%	12.48%
Other	0.34%	10.88%

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Both networks show a similar content type distribution. P2P traffic is clearly dominated by videos. The larger proportion of “other” traffic for eDonkey is due to a high amount of aggregated and compressed archive files that have not been classified in this survey.

Wide spectrum: all media types are affected by file sharing

Looking at the relative number of shared files clearly shows that small-volume content types such as eBooks are massively shared too. Music, movies, pornography and TV-series are the most often shared content types for BitTorrent. eDonkey's relative number of pornographic files is at 30% about twice as high as for BitTorrent.

Category	Subcategory	BitTorrent	eDonkey
Video	Movie	21,24%	9,80%
	TV	11,25%	24,03%
	Anime	2,27%	0,70%
	Porn	15,04%	30,02%
	unkown	0,57%	-
Audio	Music	22,30%	18,85%
	Audio book	3,97%	0,82%
Software	Applications	4,45%	1,74%
	Games	7,11%	1,72%
	unknown	0,73%	3,18%
eBooks	eBooks	6,74%	2,86%
Pictures	Porn	3,91%	0,30%
	Other	0,42%	0,73%
Archive		-	5,00%
Image		-	0,25%

Ranking: most frequently shared files infringe copyrights

All of the most frequently shared files are current releases such as movies currently showing in movie theaters. It is apparent that all of these files massively violate copyrights.

Rank	Video	Audio	Software
1	World Trade Center	German Top 100 Charts	Fifa 07
2	Click	Kuschelrock Vol. 20	Company of Heros
3	Perfume	Rosenstolz	Guild 2

In addition to “legacy” content such as movies, music and software, eBooks and audio books have become very popular too. For instance, a “Harry Potter” book is among the top-5 BitTorrent files.

Prediction: growing burden of the Internet by P2P usage

The ipoque survey proves the continuing popularity of Internet file sharing. Despite the many past campaigns by copyright holders, P2P usage has even grown.

With BitTorrent, a file sharing technology has been established that allows for virtually unlimited distribution of large media content. Thus, ipoque predicts a growing burden of the German Internet by P2P usage for the near future.