

SHA-1 Hash: DDD535C0C54E46380D01DE38C02F3CB7DE8CEECB Title: Performers of the Year 2012
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DOE#	IP	Hit date (UTC)	City	State	ISP	Network
1	216.214.189.162	8/28/2012 8:39	King Of Prussia	PA	Broadview Networks	BitTorrent
2	24.127.169.230	7/19/2012 21:14	Brookhaven	PA	Comcast Cable	BitTorrent
3	68.80.132.47	8/5/2012 6:04	Philadelphia	PA	Comcast Cable	BitTorrent
4	68.80.166.29	8/6/2012 23:48	Perkasie	PA	Comcast Cable	BitTorrent
5	68.81.56.124	7/8/2012 11:32	Philadelphia	PA	Comcast Cable	BitTorrent
6	68.82.214.199	8/4/2012 18:30	Bensalem	PA	Comcast Cable	BitTorrent
7	68.82.48.39	8/13/2012 3:49	Philadelphia	PA	Comcast Cable	BitTorrent
8	68.82.9.168	8/8/2012 4:59	Philadelphia	PA	Comcast Cable	BitTorrent
9	69.253.15.121	8/26/2012 13:47	North Wales	PA	Comcast Cable	BitTorrent
10	69.253.92.229	8/19/2012 10:00	Levittown	PA	Comcast Cable	BitTorrent
11	71.203.118.226	8/26/2012 5:51	Elkins Park	PA	Comcast Cable	BitTorrent
12	71.225.167.76	8/24/2012 15:37	Southampton	PA	Comcast Cable	BitTorrent
13	71.225.68.136	7/29/2012 20:52	Philadelphia	PA	Comcast Cable	BitTorrent
14	71.230.120.66	7/13/2012 3:09	Philadelphia	PA	Comcast Cable	BitTorrent
15	76.124.122.250	8/8/2012 22:50	Norristown	PA	Comcast Cable	BitTorrent
16	76.99.55.23	8/18/2012 18:13	Philadelphia	PA	Comcast Cable	BitTorrent
17	98.237.85.98	8/9/2012 18:48	Reading	PA	Comcast Cable	BitTorrent
18	174.141.141.15	8/14/2012 21:56	Philadelphia	PA	Hotwire Communications	BitTorrent
19	70.15.134.166	8/29/2012 16:35	Coopersburg	PA	PenTeleData	BitTorrent
20	208.58.253.243	8/28/2012 20:25	Catasauqua	PA	RCN Corporation	BitTorrent
21	64.121.111.130	7/23/2012 1:35	Allentown	PA	RCN Corporation	BitTorrent
22	64.121.172.125	7/15/2012 18:44	Bethlehem	PA	RCN Corporation	BitTorrent

EXHIBIT A

EPA125

DOE#	IP	Hit date (UTC)	City	State	ISP	Network
23	64.121.92.110	7/15/2012 21:42	Bethlehem	PA	RCN Corporation	BitTorrent
24	173.62.238.18	8/8/2012 0:58	Perkasie	PA	Verizon FiOS	BitTorrent
25	71.175.68.156	8/27/2012 13:44	Levittown	PA	Verizon FiOS	BitTorrent
26	71.185.54.75	8/21/2012 5:58	Langhorne	PA	Verizon FiOS	BitTorrent
27	108.2.121.182	8/2/2012 2:59	Doylestown	PA	Verizon Internet Services	BitTorrent
28	108.52.13.22	8/14/2012 19:43	Philadelphia	PA	Verizon Internet Services	BitTorrent
29	173.49.170.135	8/11/2012 20:37	Media	PA	Verizon Internet Services	BitTorrent
30	173.49.209.39	8/18/2012 20:43	Bensalem	PA	Verizon Internet Services	BitTorrent
31	71.185.37.210	8/8/2012 18:20	Coatesville	PA	Verizon Internet Services	BitTorrent
32	96.245.50.72	8/2/2012 22:07	Glenmoore	PA	Verizon Internet Services	BitTorrent

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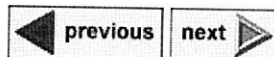
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Public Catalog

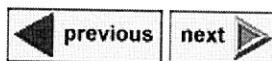
Copyright Catalog (1978 to present)

Search Request: Left Anchored Title = performers of the year

Search Results: Displaying 5 of 5 entries

**Labeled View**

PERFORMERS OF THE YEAR 2012.

Type of Work: Motion Picture**Registration Number / Date:** PA0001788821 / 2012-02-03**Application Title:** PERFORMERS OF THE YEAR 2012.**Title:** PERFORMERS OF THE YEAR 2012.**Description:** 2 Videodiscs (DVD)**Copyright Claimant:** PATRICK COLLINS, INC. Address: 8015 DEERING AVE., CANOGA PARK, CA, 91304, United States.**Date of Creation:** 2012**Date of Publication:** 2012-01-11**Nation of First Publication:** United States**Authorship on Application:** PATRICK COLLINS, INC., employer for hire; Domicile: United States; Citizenship: United States. Authorship: entire motion picture.**Names:** PATRICK COLLINS, INC.

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EXHIBIT B

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BitTorrent vocabulary

From Wikipedia, the free encyclopedia
(Redirected from Terminology of BitTorrent)

This list explains terms used when discussing **BitTorrent clients**, and in particular the BitTorrent protocol used by these clients.

Common BitTorrent terms

Announce

Same as "scrape" (see below), but a client also announces that it wants to join the swarm and that the server should add it to the list of peers in that swarm.

Availability

(Also known as distributed copies.) The number of full copies of the file available to the client. Each seed adds 1.0 to this number, as they have one complete copy of the file. A connected peer with a fraction of the file available adds that fraction to the availability, if no other peer has this part of the file.

Example: a peer with 65.3% of the file downloaded increases the availability by 0.653. However, if two peers both have the same portion of the file downloaded - say 50% - and there is only one seeder, the availability is 1.5.

Choked

Describes a peer to whom the client refuses to send file pieces. A client *chokes* another client in several situations:

- The second client is a *seed*, in which case it does not want any pieces (i.e., it is completely *uninterested*)
- The client is already uploading at its full capacity (it has reached the value of `max_uploads`)
- The second client has been blacklisted for being abusive or is using a blacklisted BitTorrent client.

Client

The program that enables p2p file sharing via the BitTorrent protocol. Examples of clients include μ Torrent and Vuze.

Downloader

A *downloader* is any peer that does not have the entire file and is downloading the file. This term, used in Bram Cohen's Python implementation, lacks the negative connotation attributed to *leech*. Bram prefers *downloader* to *leech* because BitTorrent's tit-for-tat ensures downloaders also upload and thus do not unfairly qualify as *leeches*.

EXHIBIT C

End Game

Bittorrent has a couple of download strategies for initializing a download, downloading normally among the middle of the torrent, and downloading the last few **pieces** (see below) of a torrent. Typically, the last download pieces arrive more slowly than the others since the faster and more easily accessible pieces should have already been obtained, so to prevent this, the BitTorrent client attempts to get the last missing pieces from all of its peers. Upon receiving a piece, a cancel request command is sent to other peers.

Fake

A fake torrent is a torrent that does not contain what is specified in its name or description (i.e. a torrent is said to contain a video, but it contains only a snapshot of a moment in the video, or in some cases a virus).

Hash

The hash is a string of alphanumeric characters in the .torrent file that the client uses to verify the data that is being transferred. It contains information like the file list, sizes, pieces, etc. Every piece received is first checked against the hash. If it fails verification, the data is discarded and requested again. The 'Hash Fails' field in the torrent's General tab shows the number of these hash fails.

Hash checks greatly reduce the chance that invalid data is incorrectly identified as valid by the BitTorrent client, but it is still possible for invalid data to have the same hash value as the valid data and be treated as such. This is known as a hash collision.

Health

Health is shown in a bar or in % usually next to the torrents name and size, on the site where the .torrent file is hosted. It shows if all pieces of the torrent are available to download (i.e. 50% means that only half of the torrent is available).

Index

An *index* is a list of .torrent files (usually including descriptions and other information) managed by a website and available for searches. An *index* website can also be a *tracker*.

Interested

Describes a downloader who wishes to obtain pieces of a file the client has. For example, the uploading client would flag a downloading client as 'interested' if that client did not possess a piece that it did, and wished to obtain it.

Leech

A *leech* is a term with two meanings. Usually it is used to refer a *peer* who has a negative effect on the swarm by having a very poor share ratio (downloading much more than they upload). Most leeches are users on asymmetric internet connections and do not leave their BitTorrent client open

to seed the file after their download has completed. However, some leeches intentionally avoid uploading by using modified clients or excessively limiting their upload speed.

The often used second meaning of *leech* is synonymous with *downloader* (see above): used simply to describe a *peer* or any client that does not have 100% of the data. This alternative meaning was mainly introduced by most BitTorrent tracker sites.

Lurker

A *lurker* is a user that only downloads files from the group but does not add new content. It does not necessarily mean that the lurker will not seed. Not to be confused with a *leecher*.

p2p

Stands for "peer to peer", which is the technology used for file sharing among computer users over the internet. In a p2p network, each node (or computer on the network) acts as both a client and a server. In other words, each computer is capable of both sending and receiving data.

Peer

A *peer* is one instance of a BitTorrent client running on a computer on the Internet to which other clients connect and transfer data. Usually a *peer* does not have the complete file, but only parts of it. However, in the colloquial definition, "peer" can be used to refer to any participant in the swarm (in this case, it's synonymous with "client").

Piece

This refers to the tormented files being divided up into equal specific sized pieces (e.g. 512Kb, 1Mb). The pieces are distributed in a random fashion among peers in order to optimize trading efficiency.

Ratio credit

A *ratio credit*, also known as *upload credit* or *ratio economy*, is a currency system used on a number of private trackers to provide an incentive for higher upload/download ratios among member file-sharers. In such a system, those users who have greater amounts of bandwidth, hard drive space (particularly seedboxes) or idle computer uptime are at a greater advantage to accumulate ratio credits versus those who are lacking in any one or more of the same resources.

Scrape

This is when a client sends a request to the tracking server for information about the statistics of the torrent, such as with whom to share the file and how well those other users are sharing.

Seeder

A *seeder* is a *peer* that has an entire copy of the torrent and offers it for upload. The more *seeders* there are, the better the chances of getting a higher download speed. If the seeder seeds the whole copy of the download, they should get faster downloads.

Share ratio

A user's share ratio for any individual torrent is a number determined by dividing the amount of data that user has uploaded by the amount of data they have downloaded. Final share ratios over 1 carry a positive connotation in the BitTorrent community, because they indicate that the user has sent more data to other users than they received. Likewise, share ratios under 1 have negative connotation.

Snubbed

An uploading client is flagged as *snubbed* if the downloading client has not received any data from it in over 60 seconds.

Super-seeding

When a file is new, much time can be wasted because the seeding client might send the same file piece to many different peers, while other pieces have not yet been downloaded at all. Some clients, like ABC, Vuze, BitTornado, TorrentStorm, and μ Torrent have a "super-seed" mode, where they try to only send out pieces that have never been sent out before, theoretically making the initial propagation of the file much faster. However the super-seeding becomes substantially less effective and may even reduce performance compared to the normal "rarest first" model in cases where some peers have poor or limited connectivity. This mode is generally used only for a new torrent, or one which must be re-seeded because no other seeds are available.

Swarm

Main article: segmented downloading

Together, all *peers* (including *seeders*) sharing a *torrent* are called a *swarm*. For example, six ordinary *peers* and two *seeders* make a *swarm* of eight.

Torrent

A *torrent* can mean either a `.torrent` metadata file or all files described by it, depending on context. The *torrent file* contains metadata about all the files it makes downloadable, including their names and sizes and checksums of all pieces in the *torrent*. It also contains the address of a *tracker* that coordinates communication between the peers in the swarm.

Tracker

A *tracker* is a server that keeps track of which seeds and peers are in the swarm. Clients report information to the tracker periodically and in exchange, receive information about other clients to which they can connect. The tracker is not directly involved in the data transfer and does not have a copy of the file.

See also

Retrieved from "http://en.wikipedia.org/wiki/BitTorrent_vocabulary"
Categories: BitTorrent | Lexis

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