

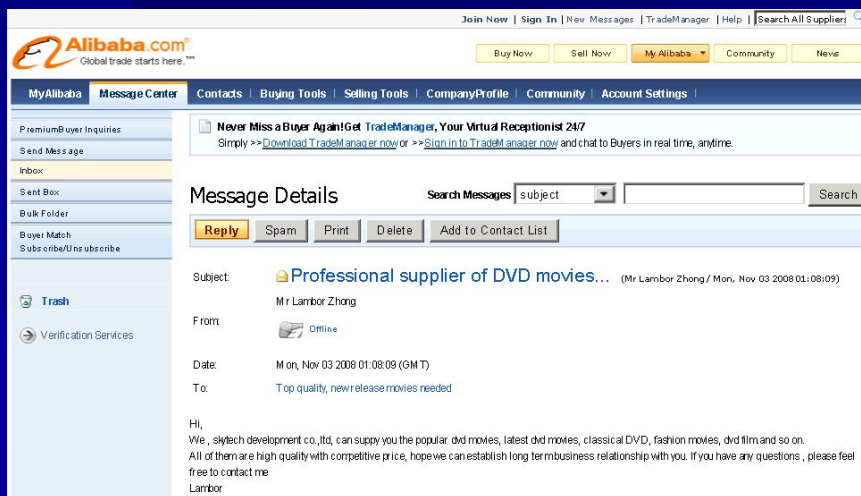


Investigating Internet Piracy

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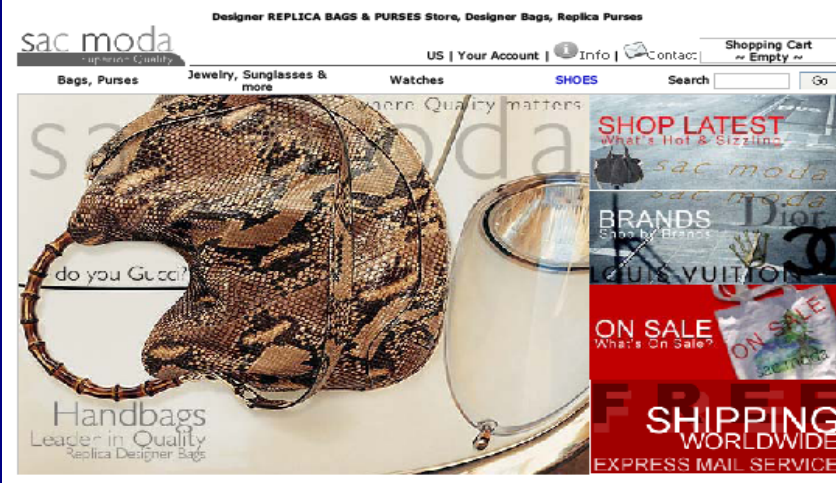
Criminal Charges in Internet Piracy Cases

- Copyright Infringement
 - Organized release groups ("Warez")
 - Peer-to-Peer operators
 - Web retailers for pirated software, DVDs and games
 - Sellers of pirated materials on auction sites



Criminal Charges in Internet Piracy Cases

- Trademark Crimes
 - Web storefronts for counterfeit hard goods
 - Auction sellers of counterfeit goods
 - Internet pharmacies for counterfeit drugs



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Gucci ,Fendi ,Hermes ,Chanel ,Louis Vuitton, Prada, Christian Dior , Balenciaga , Chloe, Mulberry, Coach, Marc Jacobs, Miu Miu and many more brands.

The designer bags and accessories are in demand due to their uniqueness and high quality. We offer you the same, sophistication and fashion for only fraction of prices. You need not to blow your savings or whole salary for only one original designer bag as you can have it for only minimum amount.

We make the original Designer Replica bags, Replica Purses...
We carry the original replica bags and accessories for all those fashion loving people who want to make other astonished and envious without disturbing their finance. You must be surprised why I have chosen the word original for our replica bags, the answer is simple our replicas are the original in true sense because we only copy design the rest of the process is same. We follow the same manufacturing process. Our material is 100% guaranteed and original, our craftsmen are the expert, our quality control check is of high quality and perfect. In short you receive the original replica bag without anyone knowing that its not original designer bag. Our departments are consisting of hardworking, efficient and dedicated workers, who work until they attain the original high quality and design to satisfy our clients.

Replica bags: Development Department
Before starting the manufacturing process for each replica bags our development team works hard to find out how the genuine bag was manufactured.

Replica bags: Sourcing Department
Our dedicated and hardworking sourcing department along with our development department purchases the best available materials in the market for the craftsmanship of our replica bags. We believe in quality and never compromise on substandard material.

Replica bags: Crafting Department
By using the best raw material and accessories, following the manufacturing processes our craftsmen make the masterpiece. The masterpiece indeed never recognized by anyone that its not original .The high quality and looks 100% like original designer bag our replica bags are worth looking.

Replica bags: Quality Control

Internet Piracy Group

- Warez Groups
- BitTorrent Groups

What are Warez?

- Warez – (Slang cracker terminology for Software) unauthorized copyrighted works distributed without fees or royalties.

Types of Warez

- Video Games
- MP3
- Cracks
 - Trial versions changed with out authorization to full versions of software package

Warez Groups Overview

- Warez Groups:
 - Very secretive
 - Members transfer files using File Transfer Protocol
 - Central servers contain group's pirated releases
 - If Law Enforcement can locate and seize central server, it can usually identify the group's members

Warez Group Components

- Release Groups
 - Obtain copyrighted material from Suppliers
- Top Sites
 - Websites hosting pirated content
- Couriers
- Sites
- Leechers

BitTorrent Overview

- Most efficient and popular way to distribute movies and software to a large number of people
- Accounts for majority of P2P traffic
- October 21, 2008 study:
 - P2P accounts 21% of global downstream traffic
 - P2P accounts for 61% of global upstream traffic

BitTorrent Components

- Peers – the individuals
 - Seeders and Leechers
- Tracker – the evidentiary treasure trove
 - Database of all activity by peers
- .Torrent file
 - Text file that allows peer to talk to tracker to download desired file from other peers

THE PYRAMID OF INTERNET PIRACY

SUPPLIERS

The primary source of newly released pirated movies come from thieves who camcord films in theaters. Illegally recorded movies are then sold to "Replicators" who rapidly produce millions of pirated DVDs and to "Release Groups" who distribute them around the world through computer servers known as "Topsites".



< 100

RELEASE GROUPS / TOP SITES

"Release Groups" are individuals who obtain pirated content from suppliers and are the first source of piracy on the Internet. Release groups put pirated movies onto clusters of high speed computers known as "Topsites." The extraordinary speed and power of a Topsite triggers the avalanche that is global Internet piracy.

FACILITATORS

Facilitators act as Internet directories, or search engines, to coordinate the mass downloading and exchange of pirated content between downloaders.



100'S

FILE SHARERS / DOWNLOADERS

A downloader transfers illegal copies of movies from the Internet to his or her computer. The peer-to-peer software commonly used by downloaders enables them to instantly share their content with other downloaders which greatly accelerates the global spread of pirated movies.



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10,000,000'S

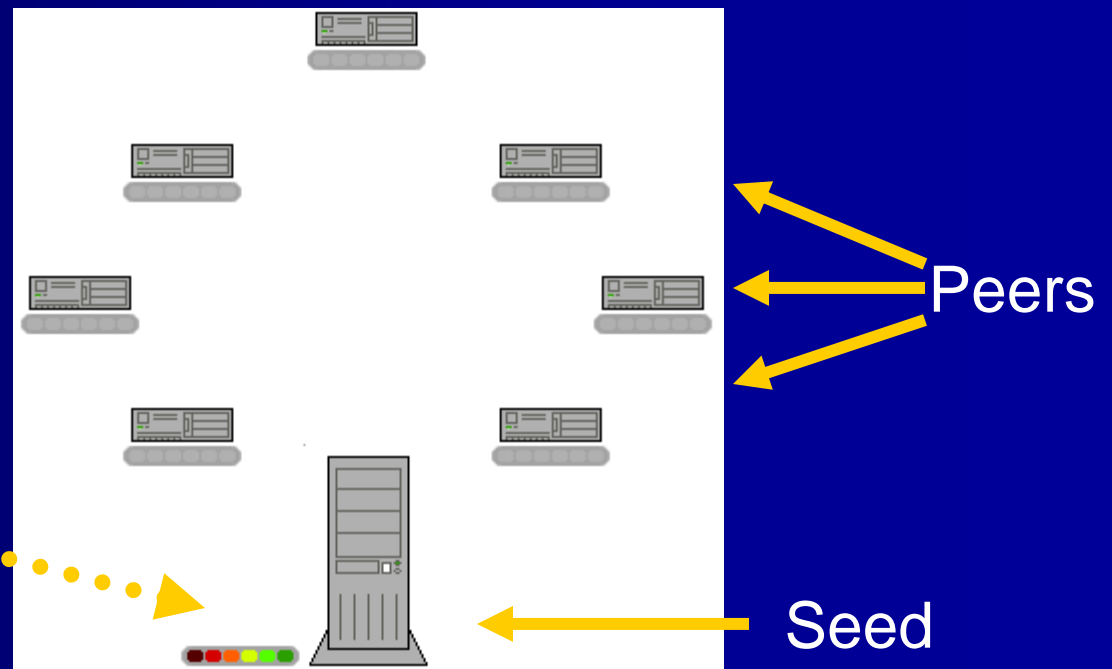
BitTorrent Process

- User visits website and downloads .torrent file for movie, software, video game
- User opens the .torrent file in BitTorrent program
- Program connects to Tracker, which allows peer to find and connect to a group of other peers who are distributing pieces of the desired file
- Program downloads file pieces from peers
- Program puts the pieces together

How BitTorrent Works

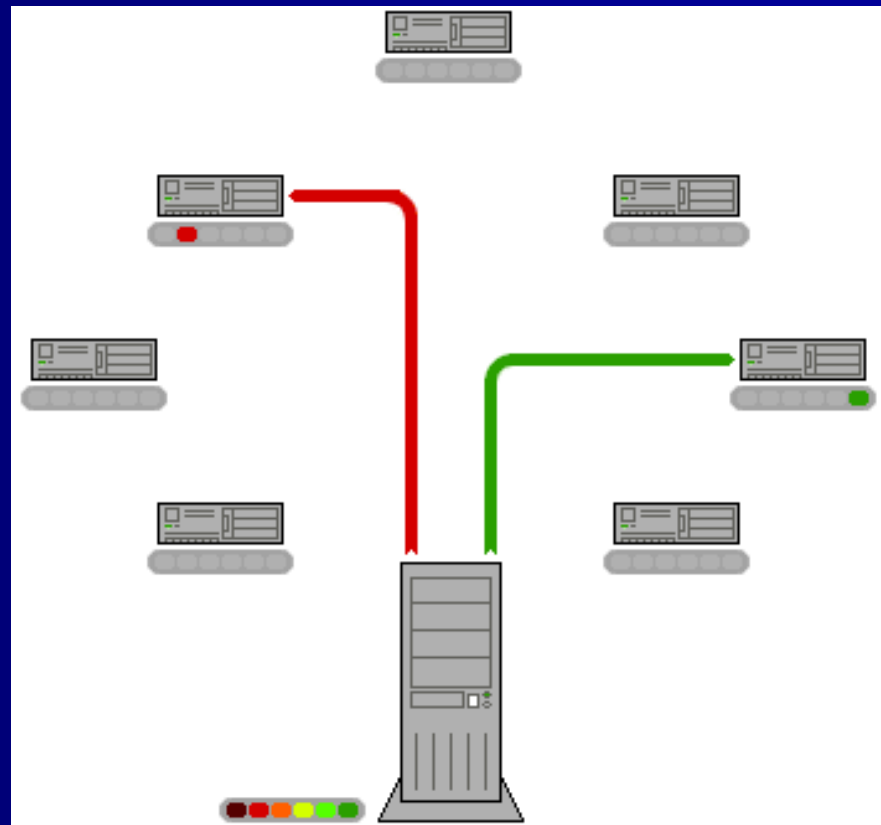
During the process, a tracker helps the seed and peers make decisions that are efficient for the network as a whole.

At the beginning,
only the seed
has the file.



How BitTorrent Works

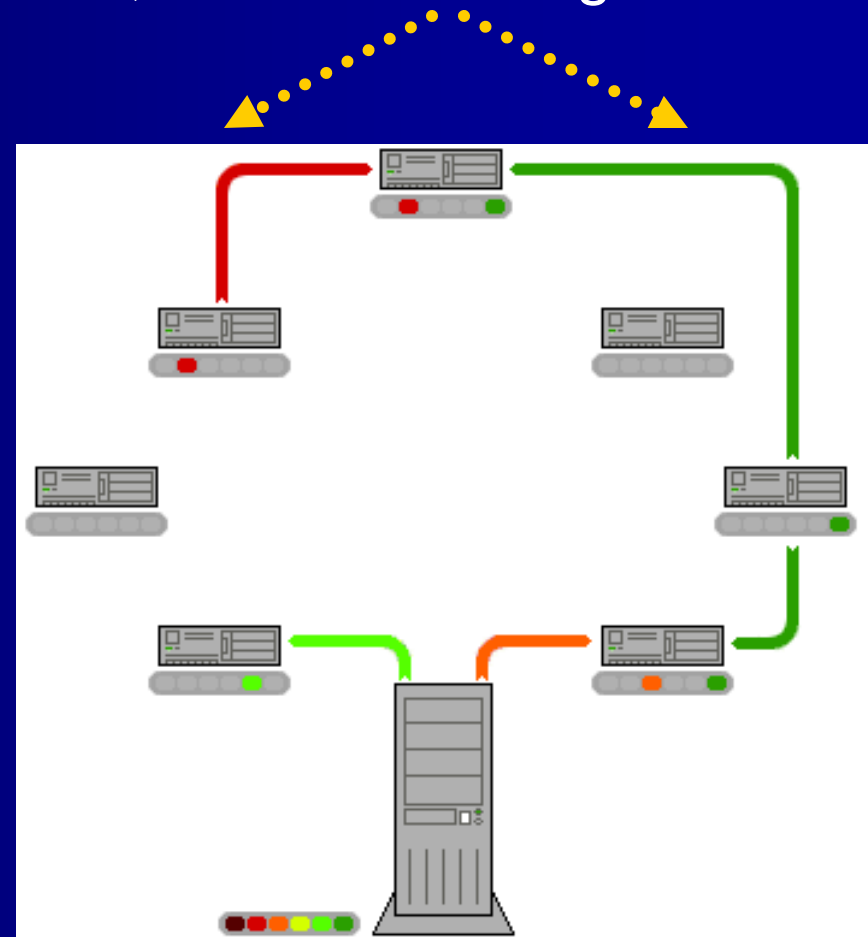
The seed begins to send different pieces of the file to different peers.



How BitTorrent Works

As soon as a peer has a piece, it starts sending it to other peers that need it.

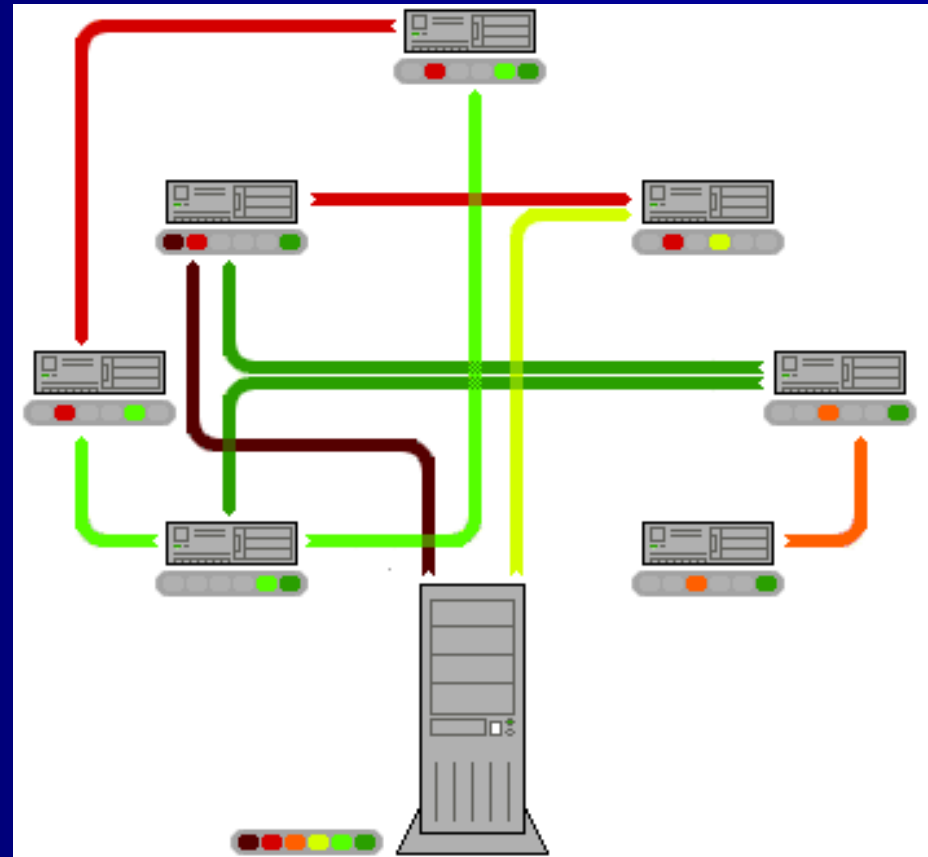
The seed continues to send pieces to peers.



How BitTorrent Works

Peers continue to send pieces to each other.

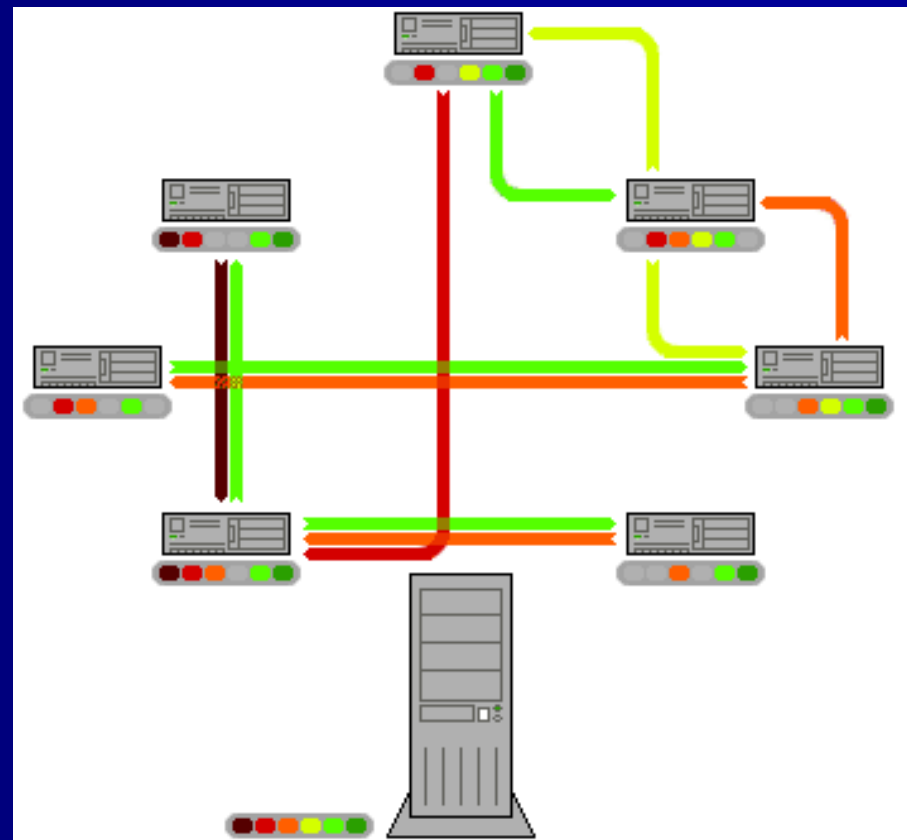
The seed continues to send pieces to peers.



How BitTorrent Works

Once all the pieces are out, the peers can share among themselves until each peer has all the pieces.

The seed can help, but it's no longer necessary.



Digital Evidence Legal Challenges

- Difficult to collect evidence at the network level
- Individuals responsible may be located overseas
- Difficult to hold one person or company responsible
- Difficult to identify individuals
 - Use of Aliases and proxy servers

Digital Evidence Legal Solutions

- Identify the true server location and seek cooperation with legal attaches.
- Try to obtain a copy of the server. This often provides insight to all necessary criminal evidence.
- Because of subject limited maintenance of records, continuous copies of connection logs or databases may be necessary. Trackers often only log the most recent activity.
- Subjects often log their own chat sections, these records often can be used to corroborate subject knowledge of illegal activity.

Contact Information

- kenya.merritt@ic.fbi.gov
- Intellectual Property Prosecution Manual
(available for free at www.cybercrime.gov)



WWW.CYBERCRIME.GOV

Computer Crime and Intellectual Property Section (CCIPS)
of the Criminal Division of the U.S. Department of Justice

Internet Crime Complaint Center (IC3)

www.ic3.gov



INTERNET CRIME COMPLAINT CENTER



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