

Java Bittorrent API Project

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Presentation outline

- Goals of the project
- Introduction to Bittorrent
- Bittorrent operation
- Motivations for a new API
- API implementation: client
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- Conclusion and future works

Goals of the project

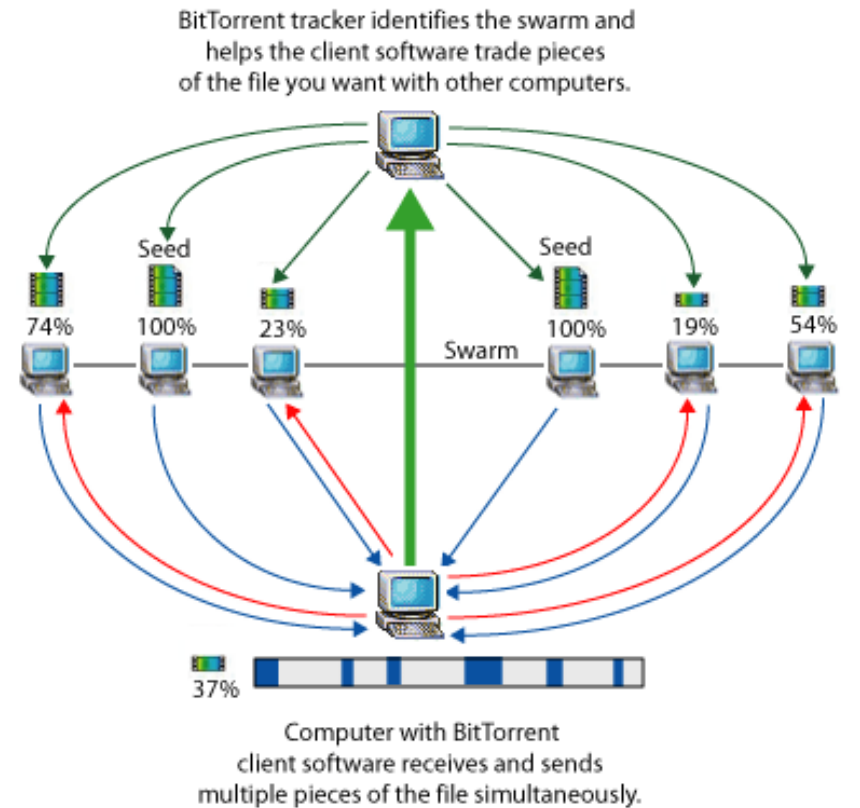
- Study Bittorrent protocol specifications
- Design an API implementing the protocol
- Make it really easy for a developer to start using the API
- Keep in mind the future goals of the API

Introduction to Bittorrent

- Bittorrent is a P2P File Sharing protocol
- Torrent file contains information about the files to be shared and the tracker to contact
- Tracker coordinates the peers exchanges for given torrent files

Bittorrent operation

- Torrent creation
- Torrent publication
- Seeding
- Torrent download
- File download



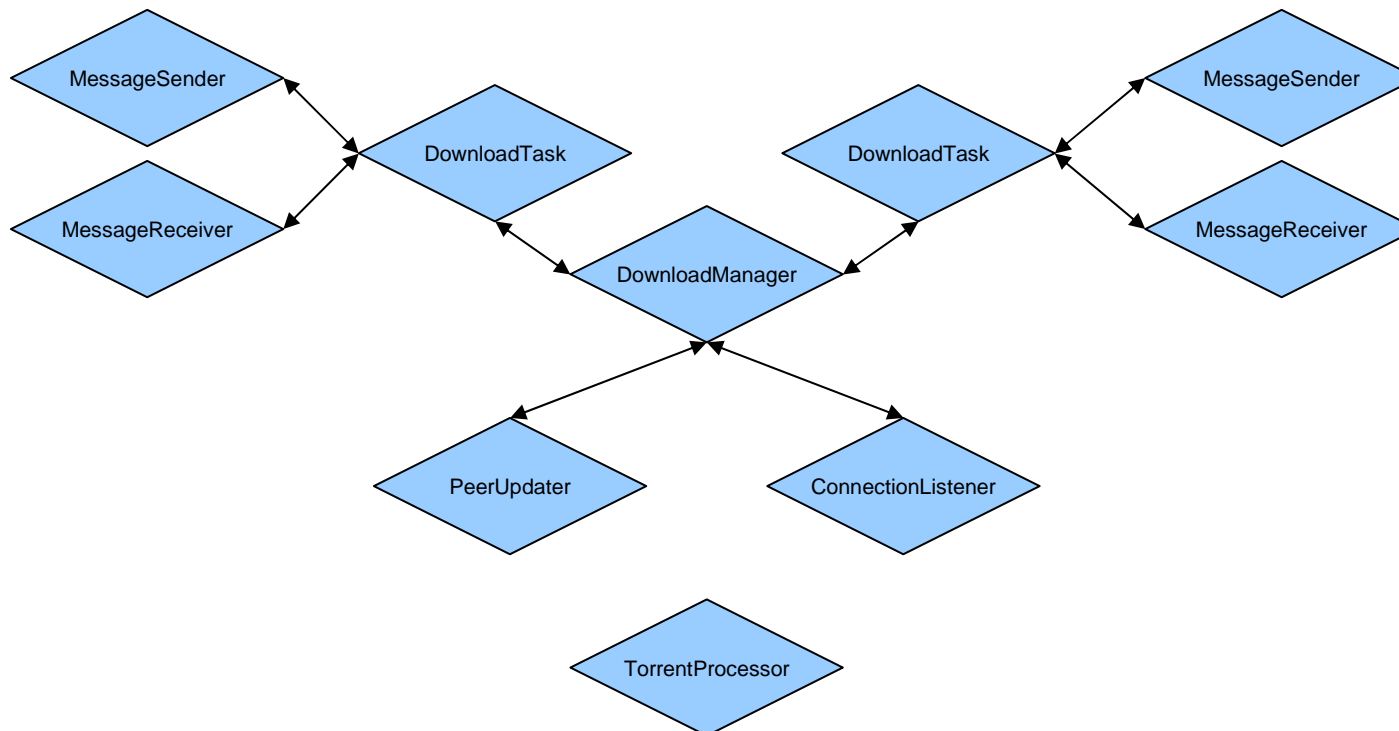
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Motivations for a new API

- No real JAVA Bittorrent API exists
- Azureus is complete but too complex
- Nowadays, lots of applications make use of Bittorrent
 - Efficient API should be provided to create new applications

API implementation

- Client implementation



Results

- Now API is available on <http://sourceforge.net/projects/bitext>
- Complete example showing how developers can use the API to create applications

Conclusion and future works

- Very active communities around Bittorrent
 - Use of forums and mailing lists to develop the API
- High demand for such a project
- Future improvements of the API:
 - Make use of UDP
 - Firewall crossing
- Next step is to use the API in for new applications
 - web browsing/serving
 - databases distribution
 - ...



Questions?