A PPSP Tracker Usage for Reload
draft-xiao-ppsp-reload-distributed-tracker-03

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Overview

Look Outside

Tracker

PPSP Tracker Protocol

Appears as a centralized tracker from outside

Look Inside

Tracker

Tracker Overlay

Connection Tracker

Responsible Tracker (for certain swarm)

RELOAD+ localization

PPSP Tracker protocol

Distributed trackers are organized as a overlay

No change to PPSP Tracker Protocol!
Two kinds of information

Data management in a tracker

- Content status
  - Swarm ID
    - Chunk
    - Peer list
  - Peer status
- Peer status
  - Peer ID
    - On line time
    - Peer property

Data management in tracker overlay

Centralized tracker

Distributed tracker
• peers in one swarm are distributed globally.
• The swarm info are maintained in tracker overlay by Reload
• Local copies of swarm info are kept by connection tracker to localized the traffic in both peelist query and content transfer.

It’s better to keep peer status locally, to avoid the frequent cross over status updates
• also, most peer status query are from peers of local area, as localized peer-list is generated
• the peer status only need register its position in the tracker overlay by Reload to tell others how to find it.