PPSP Extended Tracker Protocol (PPSP-TP/1.1)

draft-huang-ppsp-extended-tracker-protocol-01
PPSP WG
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A Recap of PPSP-TP/1.1

- Enhancing messages from PPSP-TP/1.0
  - Enhanced CONNECT message: registration and fast connection.
  - Enhanced STAT_REPORT message: content information

- 3 optional messages
  - JOIN: participate in one or multiple swarms of peers to stream contents
  - DISCONNECT: leave one, or multiple, or all swarms, or the system
  - FIND: obtain the peer list for the swarm or for specific chunks of a content for swarms already joined

- Retro-compatible with PPSP-TP/1.0
  - Peer and tracker could implement different versions of PPSP-TP.
  - If tracker implements PPSP-TP/1.0 while peer implements PPSP-TP/1.1, the request of peer should fallback to PPSP-TP/1.0

- Consistent with the architecture of the base tracker protocol (PPSP-TP/1.0)
  - No special issues exist
Updates since Last Version

• Added an example of session for messages of PPSP-TP/1.1 (present in the next slide)

• Added a new attribute, `@peerProtocol`, to `PeerAddress` in `PeerGroup`.
  – Let peer know the peer protocol version of remote peers whom it wishes to connect to

• Make `PeerGroup` not mandatory in request messages
  – Peer may only have one interface and is behind a NAT
  – The information on IP addresses of peers MUST be present in the tracker responses.

• Other editorial changes.
Example of a Session for PPSP-TP/1.1

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Peer
---

CONNECT
---

JOIN(swarm_a;SEED)
---

JOIN(swarm_a;LEECH)
---

STAT_REPORT(activity)
---

FIND(swarm_a)
---

DISCONNECT(swarm_a)
---

STAT_REPORT(activity)
---

DISCONNECT(nil)
---

Tracker
---

OK
---

OK
---

OK+PeerList
---

OK
---

OK+PeerList
---

Ok
---

Ok
---

Ok
---

Ok
---

Ok (BYE)
---
Next Step

• Adoption as a new work item?
• Question?
THANK YOU!