



MoQT Changes Since IETF121

IETF 122 in Bangkok, March 2025
Ian Swett

Major Changes between -07 to -08

Added FETCH and subsequent refinements

Detailed how to use SUBSCRIBE_DONE

Detailed how to close streams and what FIN vs RESET mean

Added an extensible header for Objects

SUBSCRIBE now always ends at a Group boundary

Changes between -07 to -08 (page 1)

SUBSCRIBEs end at a group boundary in [#593](#)

Define how to close Subgroup Streams in [#589](#)

Clarify the url scheme is moqt not moq in [#560](#)

Remove 'Role' in [#603](#)

Remove End Of Subgroup status in [#596](#)

Rewrite the Priority section to improve clarity in [#518](#)

Add SUBSCRIBES_BLOCKED in [#602](#)

Allow bidirectional GOAWAY in [#627](#)

Namespace tuples MUST have length 1..32 in [#626](#)

Changes between -07 to -08 (page 2)

Datagram FETCH subgroup id=object ID by @afrind in [#623](#)

Recommend mid-range default priority in [#622](#)

Add an error code for Too Far Behind in [#620](#)

Separate datagram and stream ID spaces in [#634](#)

Do something useful with SUBSCRIBE_DONE in [#609](#)

SUBSCRIBE_DONE with Stream Count by in [#628](#)

Remove length field from OBJECT_DATAGRAM in [#625](#)

Clarify End of track and add new Object Status in [#635](#)

Add session errors for control and data timeout in [#619](#)

Changes between -07 to -08 (page 3)

Describe how ANNOUNCE works in [#643](#)

Do not fail SUBSCRIBEs that start in the past in [#652](#)

Invalid Track Alias/Subscribe ID are a protocol violation [#616](#)

Adding an Extensible Object Header in [#502](#)

Joining Fetch in [#638](#)

Changes between -08 to -09 : Refinements to -08

Remove line about group ordering by ID in [#691](#)

Remove Latest Group mode from SUBSCRIBE in [#713](#)

Obsolete now that we have Joining FETCH

Count object extension headers in bytes, not fields in [#723](#)

SUBSCRIBE_ANNOUNCES forwards UNANNOUNCE in [#735](#)

Group ID SHOULD increase with time in [#749](#)

moq-transport-10 only moved text

Section 7. Messages In moq-transport-09

- 7.1. Parameters
- 7.2. CLIENT_SETUP and SERVER_SETUP
- 7.3. GOAWAY

- | | |
|-----------------------------|-------------------|
| 7.4. SUBSCRIBE | Subscriber |
| 7.5. SUBSCRIBE_UPDATE | |
| 7.6. UNSUBSCRIBE | |
| 7.7. FETCH | |
| 7.8. FETCH_CANCEL | |
| 7.9. ANNOUNCE_OK | |
| 7.10. ANNOUNCE_ERROR | |
| 7.11. ANNOUNCE_CANCEL | |
| 7.12. TRACK_STATUS_REQUEST | |
| 7.13. SUBSCRIBE_ANNOUNCES | |
| 7.14. UNSUBSCRIBE_ANNOUNCES | |

- | | |
|---------------------------------|------------------|
| 7.15. SUBSCRIBE_OK | Publisher |
| 7.16. SUBSCRIBE_ERROR | |
| 7.17. FETCH_OK | |
| 7.18. FETCH_ERROR | |
| 7.19. SUBSCRIBE_DONE | |
| 7.20. MAX_SUBSCRIBE_ID | |
| 7.21. SUBSCRIBES_BLOCKED | |
| 7.22. ANNOUNCE | |
| 7.23. UNANNOUNCE | |
| 7.24. TRACK_STATUS | |
| 7.25. SUBSCRIBE_ANNOUNCES_OK | |
| 7.26. SUBSCRIBE_ANNOUNCES_ERROR | |

Section 7. Messages - PR [#750](#) - moq-transport-10

7.1. Parameters

7.2. CLIENT_SETUP and SERVER_SETUP

7.3. GOAWAY

7.20. MAX_SUBSCRIBE_ID

7.21. SUBSCRIBES_BLOCKED

7.4. SUBSCRIBE

7.15. SUBSCRIBE_OK

7.16. SUBSCRIBE_ERROR

7.5. SUBSCRIBE_UPDATE

7.6. UNSUBSCRIBE

7.19. SUBSCRIBE_DONE

7.7. FETCH

7.17. FETCH_OK

7.18. FETCH_ERROR

7.8. FETCH_CANCEL

7.12. TRACK_STATUS_REQUEST

7.24. TRACK_STATUS

7.22. ANNOUNCE

7.9. ANNOUNCE_OK

7.10. ANNOUNCE_ERROR

7.23. UNANNOUNCE

7.11. ANNOUNCE_CANCEL

7.13. SUBSCRIBE_ANNOUNCEMENTS

7.25. SUBSCRIBE_ANNOUNCEMENTS_OK

7.26. SUBSCRIBE_ANNOUNCEMENTS_ERROR

7.14. UNSUBSCRIBE_ANNOUNCEMENTS