



MoQ Transport-05 Updates + Priorities

[Moq-transport](#)

IETF 120 in Vancouver, July 2024

Changes between -03 and -04

[#439](#) SUBSCRIBEv2 with 4 modes:

Latest Group, Latest Object, AbsoluteStart, AbsoluteRange

[#444](#), Clarifies SUBSCRIBE

[#435](#) Adds SUBSCRIBE_UPDATE

Changes between -04 and -05

[#470](#) Adds Priority and Group Send Order to SUBSCRIBE

[#463](#) Updates terminology (ie: Original Publisher, End Subscriber, Relay, Upstream, Downstream)

[#479](#) Specifies SUBSCRIBE_UPDATE errors

[#429](#) Adds Object Status to indicate missing Objects

[#425](#) Adds TRACK_STATUS and TRACK_STATUS_REQUEST to retrieve the current Group and Object ID

New Priority and Group Send Order [#470](#)

SUBSCRIBE specifies a **Priority** between 0-255

SUBSCRIBE specifies **Group Order** of **Ascending** or **Descending** or **Default**

SUBSCRIBE_OK specifies publisher's **Group Order**, which is used if **SUBSCRIBE** specifies **Default**

Object Headers still have a **Priority** field

Subscriber priority is considered first, then the publisher's

What to send next?

For all subscriptions with data to send:

- Select a subscription to send next by:
 - Rank by **Subscriber Priority**,
 - If equal, rank by **Publisher Priority**
 - If both equal, implementation chooses which to send
- Within the selected track, select group by:
 - If Ascending, send data from lowest Group ID
 - If Descending, send data from highest Group ID
- Within the selected group, select Object by:
 - Prioritize the smallest available **Object Id**