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**