# **Media Rate API Proposal**

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### **Problem Statement and Solution**

#### **Problem Statement:**

Client video streaming experiences are negatively impacted due to a lack of information about maximum allowed bandwidth. This results in:

Packet loss and degraded video quality: Clients, especially those using adaptive bitrate protocols like HLS or DASH, are unable to optimize their streams without knowing the network's limitations.

Inefficient use of network resources: Video policing mechanisms implemented to enforce bandwidth restrictions add complexity and overhead.

#### **Solution:**

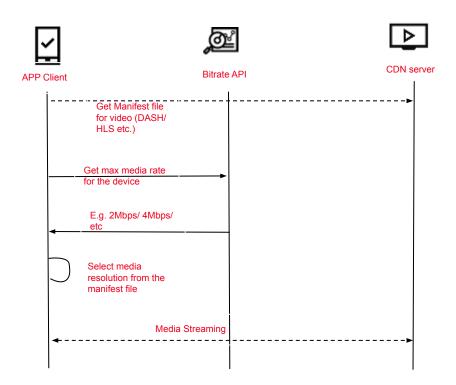
Implement a Media Rate API that communicates the maximum allowed media rate to the client before the video session begins. This allows the client to:

Select an appropriate video resolution: Clients can choose a resolution that aligns with the available bandwidth, preventing buffering and ensuring smooth playback.

Reduced network strain: Less need for proactive video policing, leading to more efficient use of network resources. Eliminating the need for complex video policing mechanisms simplifies network administration.



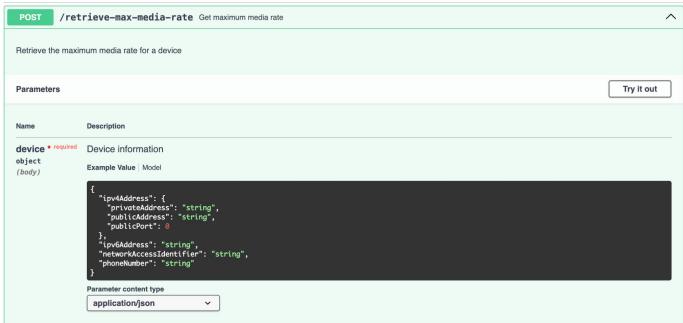
## **API Call flow**





# **Open API spec-Proposed**

#### Request





# **Open API spec-Proposed**

### Response





