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(54) **ADVANCED ROUTING AND REMOTE RENDERED VIDEOS LAYOUT FOR MEETING SIDE GROUP CONVERSATIONS AND VOICE ASSISTANT PROVIDERS**

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(57) **ABSTRACT**

Systems and methods for routing audio and/or video streams and remote rendered video layout for conference side group conversations and voice assistant providers are disclosed. During a main conference comprising a plurality of users, a request is received to create a side group conversation comprising a subgroup of the plurality of users. A voice assistant provider is invited to the side group conversation. Users in the subgroup may be granted different permissions to query or receive responses from the voice assistant. Incoming audio and video streams from each user are demultiplexed and decoded. Decoded audio streams are processed by an appropriate audio mixer of the group and voice assistant. Decoded video streams are processed and rendered based on a video grouping render policies. Processed audio streams for each group and voice assistant and/or rendered videos are encoded and routed to each user through their dedicated multiplexer.

