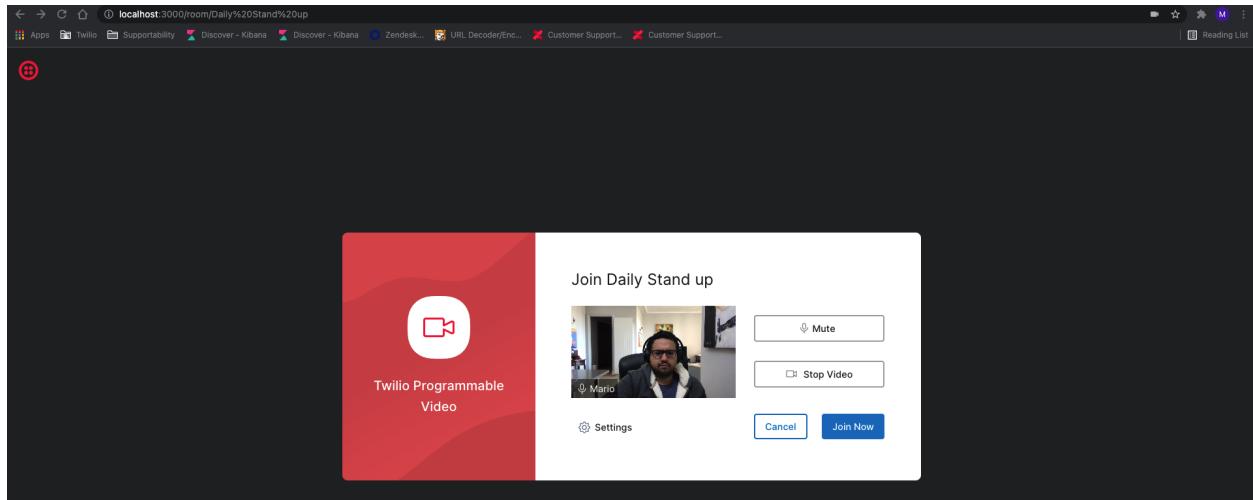


# Join Room

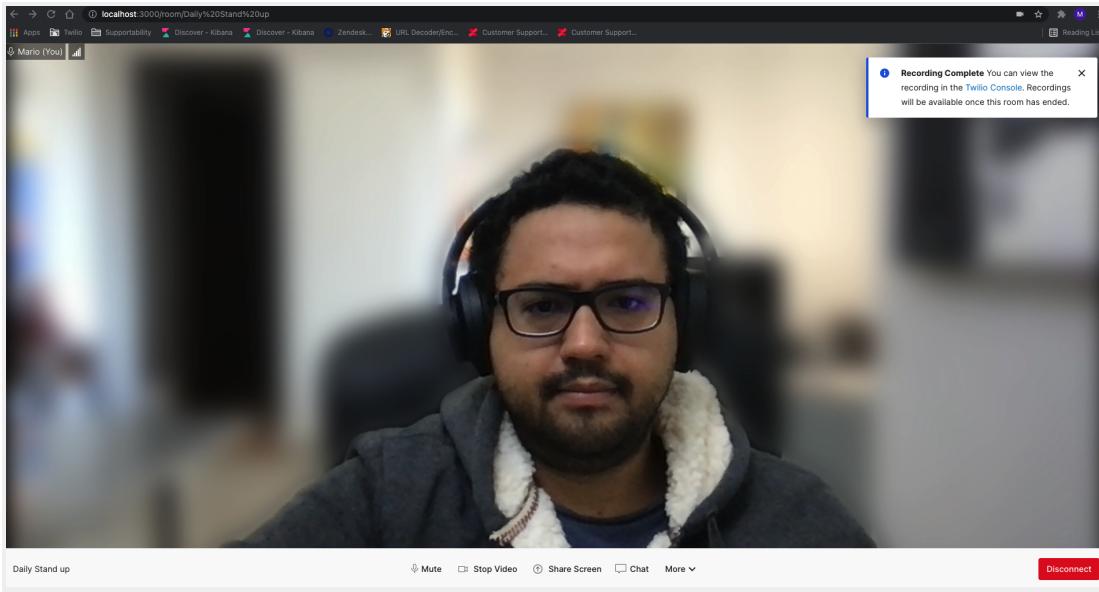


## Virtual Background and Messages



Room Sid: RM99d7d0e54be51c2efafdf2891b8d71c40

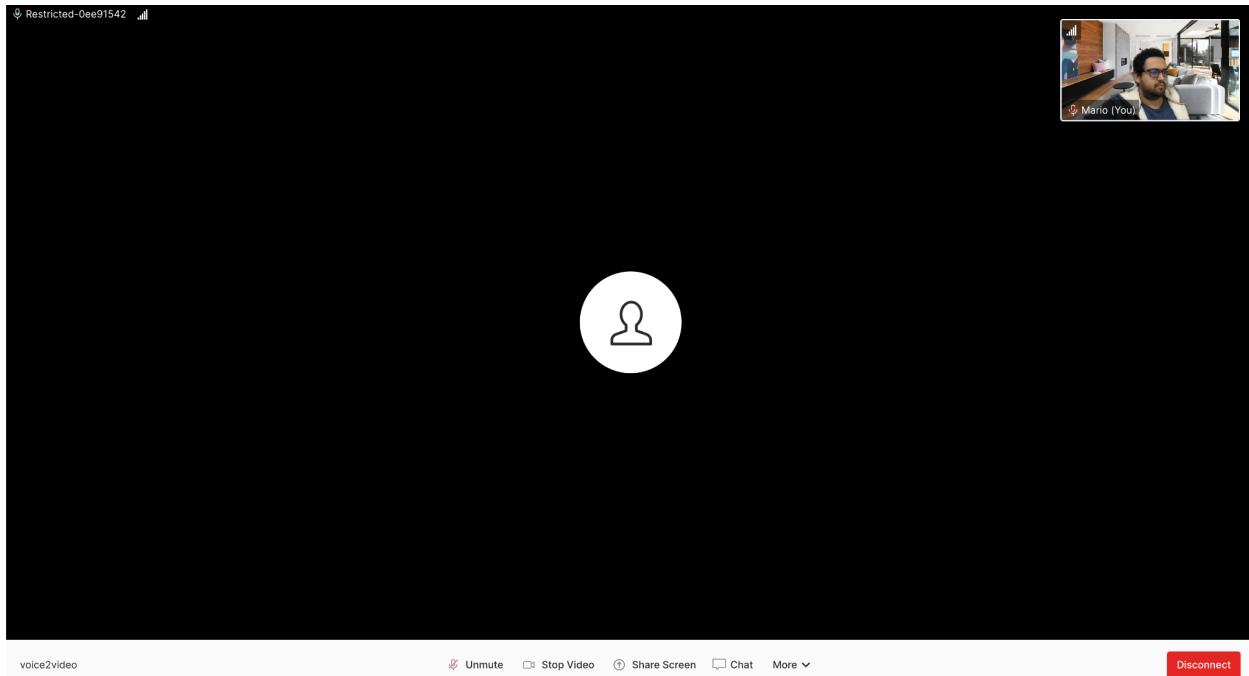
# Stop Recording



Recording URI:

/v1/Recordings/RT25920f53a31480869647ec30f7407c83/Media

# PSTN participant to a room



voice2video

Unmute Stop Video Share Screen Chat More Disconnect

Webhook.site Docs & API Custom Actions WebhookScript Terms & Privacy Support ★ Upgrade Copy Edit New Login

11/30/2021 11:56:34 AM

Request Details

PORT	https://webhook.site/e68cecfdc-1a0c-4b2e-a0ce-5e80d49a65f7
Host	54.175.97.250 whois
Date	11/30/2021 11:55:41 AM (4 minutes ago)
Size	363 bytes
ID	0838dfcb-fd9f-4c9e-85fe-39864d2e8b48
Files	(empty)

Query strings

Form values	
RoomStatus	in-progress
RoomType	group
RoomSid	RM44a5d1f642b63dbde83a028d749807fe
RoomName	voice2video
ParticipantStatus	connected
ParticipantIdentity	Restricted-0ee91542
SequenceNumber	5
StatusCallbackEvent	participant-connected
Timestamp	2021-11-30T10:55:41.116Z
ParticipantSid	PAS938ecdd64eac0d38006ca34dc406c2a5&AccountSid=ACdc1d37b678ff7e113c1f3cc4a0796d6
AccountSid	ACdc1d37b678ff7e113c1f3cc4a0796d6

Raw Content

```
RoomStatus=in-progress&RoomType=group&RoomSid=RM44a5d1f642b63dbde83a028d749807fe&RoomName=voice2video&ParticipantStatus=connected&ParticipantIdentity=Restricted-0ee91542&SequenceNumber=5&StatusCallbackEvent=participant-connected&Timestamp=2021-11-30T10:55:41.116Z&ParticipantSid=PAS938ecdd64eac0d38006ca34dc406c2a5&AccountSid=ACdc1d37b678ff7e113c1f3cc4a0796d6
```

### Form values

RoomStatus	in-progress
RoomType	group
RoomSid	RM44a5d1f642b63dbde83a028d749807fe
RoomName	voice2video
ParticipantStatus	connected
ParticipantIdentity	Restricted-0ee91542
SequenceNumber	5
StatusCallbackEvent	participant-connected
Timestamp	2021-11-30T10:55:41.116Z
ParticipantSid	PA938ecdd64eac0d38006ca34dc406c2a5
AccountSid	ACdc1d37b678ff7e113c1f3ccd4a0796d6

[My TwiML bins](#) /

## TwiML Bin

### Properties

SID	EHf505ba80bf27d74c032507df364f1d35	DATE CREATED	2021-11-30 02:49:10
URL	<a href="https://handler.twilio.com/twiml/EHf505ba80bf">https://handler.twilio.com/twiml/EHf505ba80bf</a>	DATE UPDATED	2021-11-30 02:51:52

### Configuration

FRIENDLY NAME

Daily Standup

TWIML

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <Response>
3   <Connect>
4     <Room>voice2video</Room>
5   </Connect>
6 </Response>
```

 Valid Voice TwiML

Room Sid: RM44a5d1f642b63dbde83a028d749807fe

# Room P2P

**Request Details**

		Permalink	Raw content	Export as
POST	https://webhook.site/e68cefdc-1a0c-4a2e-a0ce-5e80d49a65f7			
Host	54.80.45.223 whois			
Date	11/30/2021 12:43:03 PM (a few seconds ago)			
Size	246 bytes			
ID	76310f8a-275-40c9-97c8-b42fb340f45			
Files	(empty)			
Query strings	(empty)			
Raw Content				<input checked="" type="checkbox"/> Format JSON <input checked="" type="checkbox"/> Word-Wrap <input type="button" value="Copy"/>

**Headers**

connection	close
user-agent	TwilioProxy/1.1
content-length	246
x-home-region	us1
accept	*/*
x-twilio-signature	z6AQYXaLqltLyVwM3s4x2PwIv0w=
i-twilio-idempotency-token	30ae3397-c4b1-4462-85e5-f2c67113475f
content-type	application/x-www-form-urlencoded; charset=UTF-8
host	webhook.site

**Form values**

RoomStatus	in-progress
RoomType	peer-to-peer
RoomSid	RMdaa926879c15f99b008794d2ada319ec
RoomName	p2proomexample
SequenceNumber	0
StatusCallbackEvent	room-created
Timestamp	2021-11-30T11:43:03.318Z
AccountSid	ACdc1d37b678ff7e113c1f3ccd4a0796d6

Room Sid: RMdaa926879c15f99b008794d2ada319ec

# Video Logs-Rooms

The screenshot shows the Twilio Console interface. The top navigation bar includes 'Console', 'My first Twilio account', a search bar, and user account information. Below the navigation is a sidebar with 'Develop' and 'Monitor' tabs, and sections for 'Logs', 'Insights', 'Account', 'Video' (with a 'Beta' link), 'Dashboard', 'Troubleshoot', and 'Messages' (with a 'Beta' link). The main content area is titled 'Rooms' and contains a table with columns: 'Room name and SID', 'Issues', 'Participants', '% with issues', 'Room Type', and 'Date Created'. Two rows are listed:

Room name and SID	Issues	Participants	% with issues	Room Type	Date Created
test RMcc9713b7ec5f57fc2a4b6432a7f3cd25	-	1	-	group	10:26:05 UTC 2021-11-29
Daily Stand up RM98d7d0e54be51c2efad2891b8d71c40	-	2	-	group	09:42:23 UTC 2021-11-29

Buttons at the bottom right include 'View Historic Logs', '2 Per Page', and 'Export to CSV'.

# Video Logs-Recordings

The screenshot shows the Twilio Console interface. The top navigation bar includes 'Console', 'My first Twilio account', a search bar, and user account information. Below the navigation is a sidebar with 'Develop' and 'Monitor' tabs, and sections for 'Logs' (with 'Errors' and 'Messaging' links), 'Video recordings' (selected), 'Video compositions', 'Conversations', 'Insights' (with a 'Beta' link), 'Docs and Support', and a 'Help' section. The main content area is titled 'Recording logs' and contains a table with columns: 'SID', 'Room SID', 'Date', 'Duration', 'Type', and 'Status'. A red button labeled 'Bulk delete all completed' is visible above the table, and a 'Download CSV' button is at the bottom right. The table lists several recording entries:

SID	Room SID	Date	Duration	Type	Status
RT7a3967fb3ccb38f64af2afe5b08cb0	RM346b5bd69878ed68681048dc248559f1	12:32:06 UTC 2021-11-29	32 sec	video	Completed
RTCde401715349eb4ca51d823cf9c6c3	RM346b5bd69878ed68681048dc248559f1	12:32:05 UTC 2021-11-29	33 sec	audio	Completed
RT2db38193187911a4cac6e16985e8580	RM910b1b1ed66715ace9d527915ad00348	12:14:17 UTC 2021-11-29	6 sec	video	Completed
RTe65cadfa66bb1b834499eaef22aa619d88	RM139bfe9a341ac727ac10f3b13b161c5e	12:06:11 UTC 2021-11-29	26 sec	video	Completed
RTf6ccc065bf1a18pb0a7727d15b5cc705b	RMb8b2b2b13332204b92a5ce2959e5f8a4	11:47:55 UTC 2021-11-29	5 sec	video	Completed
RTe5aa284a3479a3d629c89c12f96566b2	RMb8b2b2b13332204b92a5ce2959e5f8a4	11:47:55 UTC 2021-11-29	5 sec	video	Completed
RTa47541017cfef198135ba6694d463144	RMb8b2b2b13332204b92a5ce2959e5f8a4	11:47:55 UTC 2021-11-29	5 sec	video	Completed
RT1ae47564b489e56acde597281dc7e6c	RMb8b2b2b13332204b92a5ce2959e5f8a4	11:47:55 UTC 2021-11-29	5 sec	video	Completed
RT7cf1f26b848d655dfff8d473b75d2	RMb8b2b2b13332204b92a5ce2959e5f8a4	11:42:40 UTC 2021-11-29	16 sec	video	Completed
RT243a9669f247725f619a1ff83f93bb11	RMb8b2b2b13332204b92a5ce2959e5f8a4	11:42:40 UTC 2021-11-29	15 sec	audio	Completed
RTdd1e26321c7193fb88634cd76a81a94	RMcc9713b7ec5f57fc2a4b6432a7f3cd25	10:26:11 UTC 2021-11-29	1 sec	video	Completed

# Video Usage

The screenshot shows the Twilio Console interface for 'My first Twilio account'. The left sidebar has sections for Billing, Usage summary, and Nonprofit benefits. The main content area is titled 'All Product Usage' for November 2021. It lists costs for various products, including Programmable Video, Group Rooms, Recordings, and Programmable Chat. The total cost for all accounts is \$2.968.

PRODUCT	UNITS	QUANTITY	COST
All accounts total			\$2.968
My first Twilio account			\$2.968
Programmable Video <a href="#">Go to Video Logs</a>	742.008		\$2.968
▶ Group Rooms	549.00800		\$2.196
▶ Recordings	193.00000		\$0.772
Recording Minutes	minutes	193.00000	\$0.772
▶ Programmable Chat <a href="#">Go to Programmable Chat</a>	8		\$0.00
PChat Users	use	8.00000	\$0.00

# Monkey Video Log Analyzer

The screenshot shows a list of rooms in the Monkey Video Log Analyzer. The columns include Room name and SID, Issues, Participants, % with issues, Room Type, and Date Created. There are three entries: 'Test' (SID: RhNbB2b13332204b92a5ce2959e5f8a4), 'test' (SID: Rhcc9713b7ec5f57tc2a4b8432a7f3cd25), and 'Daily Stand up' (SID: Rh99d7d0e54be51c2efaf2891b8d71c40). The 'test' room was created at 10:26:05 UTC 2021-11-29.

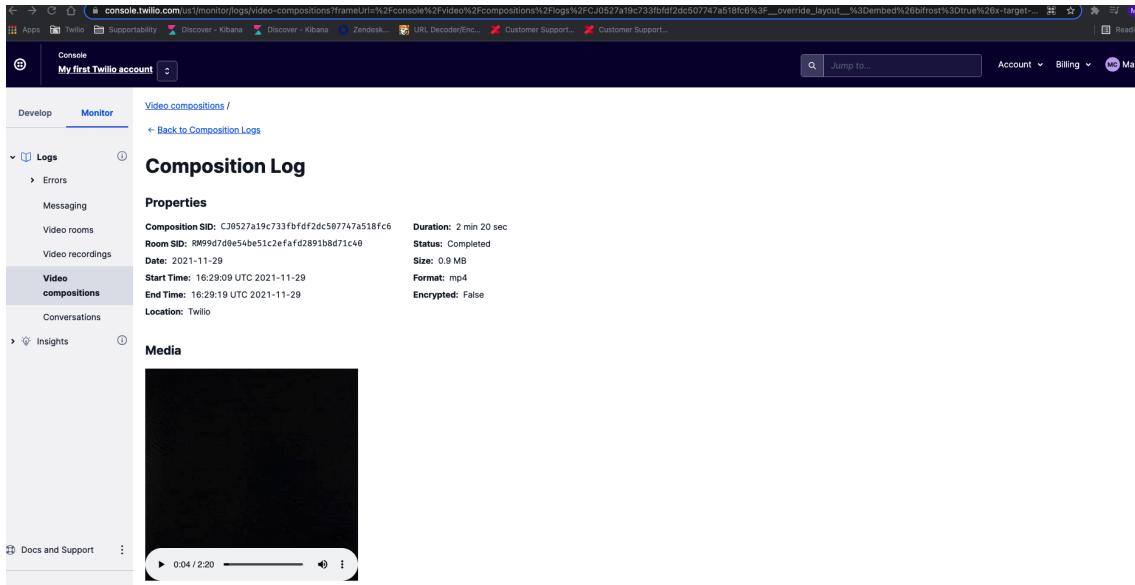
Room name and SID	Issues	Participants	% with issues	Room Type	Date Created
Test RhNbB2b13332204b92a5ce2959e5f8a4	-	10	-	group	11:42:39 UTC 2021-11-29
test Rhcc9713b7ec5f57tc2a4b8432a7f3cd25	-	1	-	group	10:26:05 UTC 2021-11-29
Daily Stand up Rh99d7d0e54be51c2efaf2891b8d71c40	-	2	-	group	09:42:23 UTC 2021-11-29

# Differences between Group and P2P rooms

- In P2P rooms Twilio does not mediate in the media exchange, which takes place through direct communication among Participants, that's why recordings are not available.
- Battery consumption increases as the number of participants, that's why it is recommended to use only P2P with a max of 3 participants when video is published.
- The pricing schema of P2P rooms is cheaper than Group Rooms.

# Compositions

## Audio only



The screenshot shows the Twilio Console interface with the 'Monitor' tab selected. In the left sidebar, 'Video compositions' is highlighted. The main area displays the 'Composition Log' for a specific composition. The 'Properties' section shows the following details:

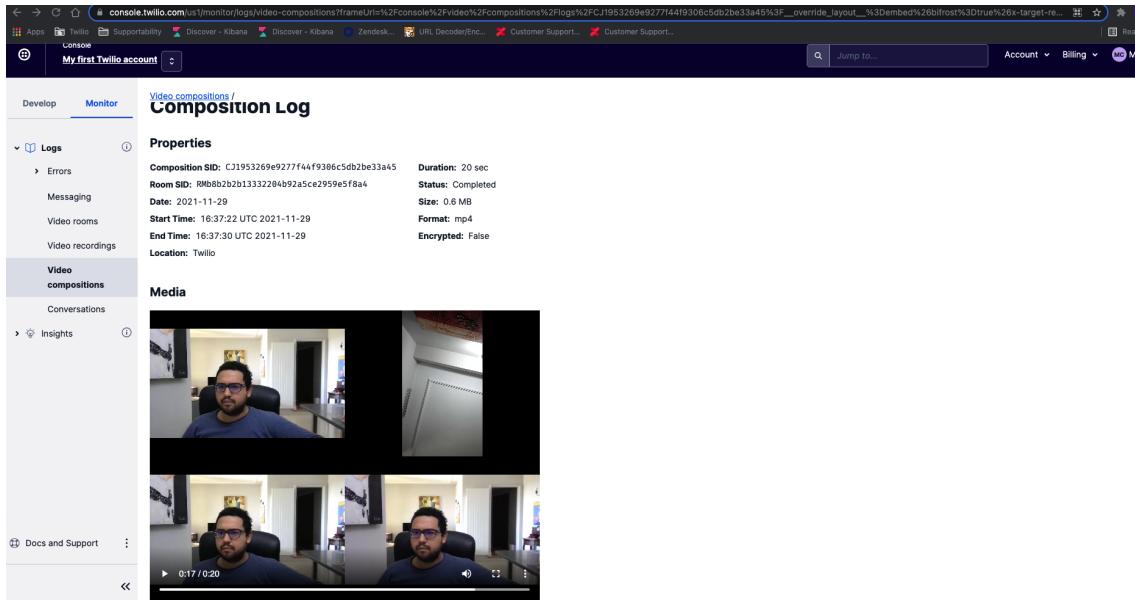
Property	Value
Composition SID	CJ0527a19c733fbfdf2dc507747a518fc6
Room SID	RM99d7d0e54be51c2efaf2891b8d71c40
Date	2021-11-29
Start Time	16:29:09 UTC 2021-11-29
End Time	16:29:19 UTC 2021-11-29
Location	Twilio

The 'Media' section shows a black video thumbnail with a play button and a progress bar indicating 0:04 / 2:20. A 'Docs and Support' link is visible at the bottom.

**Composition Sid:** CJ0527a19c733fbfdf2dc507747a518fc6

**Room Sid:** RM99d7d0e54be51c2efaf2891b8d71c40

## Grid Composition



The screenshot shows the Twilio Console interface with the 'Monitor' tab selected. In the left sidebar, 'Video compositions' is highlighted. The main area displays the 'Composition Log' for a specific composition. The 'Properties' section shows the following details:

Property	Value
Composition SID	CJ1953269e9277f44f9386c5db2be33a45
Room SID	RMb8b2b13332204b92a5ce2959e5f8a4
Date	2021-11-29
Start Time	16:37:22 UTC 2021-11-29
End Time	16:37:30 UTC 2021-11-29
Location	Twilio

The 'Media' section shows a grid of video thumbnails. The top row contains two thumbnails, and the bottom row contains two thumbnails, all showing a person's face. A play button and a progress bar indicating 0:17 / 0:20 are visible. A 'Docs and Support' link is visible at the bottom.

**Composition Sid:** CJ1953269e9277f44f9306c5db2be33a45

**Room Sid:** RMb8b2b13332204b92a5ce2959e5f8a4

# Programmable-Video Bot (a Slack App)

Account Sid: ACdc1d37b678ff7e113c1f3ccd4a0796d6

The screenshot shows the Programmable-Video Bot Slack app interface. At the top, there's a message from Mario Carreras at 5:44 PM. Below it, a message from the bot at 5:45 PM displays account info for the specified account SID. The account info includes details like creation date (2021-11-26T11:06:42.172+0000), modified date (2021-11-29T14:57:32.169+0000), and various configuration settings such as Adhoc Room enabled, Media Region us1, Room Timeout 300, Status Callback URL, Video Codecs VP8,H264, Account Write Rate Limit 20, Participants Concurrent High 5, and more. Below the account info, another message from the bot at 5:45 PM shows a table of recently created rooms.

1	timestamp	room.sid	room.name	media.region	room.type	video.codecs
2						
3	2021-11-29T13:05:38.481Z	RM71276d55a2065ed29c96cd4cbc9ab11b	group type	us1	group	VP8,H264
4	2021-11-29T13:05:35.341Z	RM71276d55a2065ed29c96cd4cbc9ab11b	group type	us1	group	
5	2021-11-29T13:04:28.230Z	RM637ac4cf6c0913c973c063ca12850	group type	us1	group	H264,VP8
6	2021-11-29T13:04:24.833Z	RM637ac4cf6c0913c973c063ca12850	group type	us1	group	
7	2021-11-29T13:01:26.685Z	RMF51eb774df4c32fb0d9449fb099be1	peer-to-peer	us1	group	VP8,H264
8	2021-11-29T13:01:22.990Z	RMF51eb774df4c32fb0d9449fb099be1	peer-to-peer	us1	group	

Participant Sid: ACdc1d37b678ff7e113c1f3ccd4a0796d6

The screenshot shows the Programmable-Video Bot Slack app interface. At the top, there's a message from Mario Carreras at 5:49 PM. Below it, a message from the bot at 5:49 PM displays participant analysis for the specified participant SID. The analysis includes details like Identity (Mario), AccountSid (ACdc1d37b678ff7e113c1f3ccd4a0796d6), Country (United States), Start Time (2021-11-29T13:05:38.481Z), Date Created (2021-11-29T13:05:38.482Z), Duration (29), Browser (Chrome), Platform Name (MacOS), Hardware Device Model (None), Hardware Device Architecture (None), and Video Codec (VP8). Below the analysis, another message from the bot at 5:49 PM shows a participant summary report.

1. Summary For Room: group type | RM71276d55a2065ed29c96cd4cbc9ab11b | ACdc1d37b678ff7e113c1f3ccd4a0796d6  
2. Topology: group | Adhoc: False | TURN: True | Recording on Connect: True | Video Codecs: VP8,H264 | Media Region: us1 | Audio Only: False  
3. VMS: VM8F32f6819f8fce208cd6a444bacd26  
4. Participants:  
5. P1: PA98c820ed26e6a0afed828f329cdee7eb | CAFFF14222c73Ffabcb756a0b88c7bf33cf | Mario | unidentified | jsdk 2.17.1 | Chrome 96.0.4666

Room Sid: ACdc1d37b678ff7e113c1f3ccd4a0796d6

Programmable-Video Bot ▾

Messages About

transport=tcp", "username": "6d19256838ffc9a5ced5612906c12865ea6f4adda25c8b7a6e3d2", "password": "5ed3"], "success": true}

Mario Carreras 5:51 PM  
RM71276d55a2065ed29c96cd4cbc9ab11b

bot APP 5:51 PM  
Room Analysis for RM71276d55a2065ed29c96cd4cbc9ab11b

Room Info	
AccountSid	Created On
ACdc1d37b678ff7e113c1f3ccd4a0796d6	2021-11-29 13:11:10.374
Ended On	Room Name
2021-11-29 13:11:10.374	group type
VideoMediaServerSid	Status Callback
VM8f326f6819f8fce208cd6a4444bacd26	POST <a href="https://webhook.site/e68cefcd-1a0c-4a2e-acce-5e80d49a5f7">https://webhook.site/e68cefcd-1a0c-4a2e-acce-5e80d49a5f7</a>
Room Type	Unique Participants
group	1
Unique Identities	Turn Enabled
1	True
Recordings Enabled	IsAdhoc
False	False
Completed via REST API	Media Region
No	us1
Video Codecs	Status
VP8, H264	completed
Duration (seconds)	Maximum Participants
331	50
Maximum Participant Duration	
14400	

Programmable-Video Bot APP 5:51 PM

Participants Info ▾

joined (UTC)	left (UTC)	sid	identity	ICE	published	subscribed
2021-11-29 13:05:38.481	2021-11-29 13:06:08.156	PA98c820ed26e6a0afed828f329cdee7eb	Mario	YES	YES	NO

Room Summary Report ▾

- Summary for Room: group type | RM71276d55a2065ed29c96cd4cbc9ab11b | ACdc1d37b678ff7e113c1f3ccd4a0796d6
- Topology: group | Adhoc: False | TURN: True | Recording on Connect: True | Video Codecs: VP8, H264 | Media Region: us1 | Audio Only: False

Track Sid: ACdc1d37b678ff7e113c1f3ccd4a0796d6

Programmable-Video Bot ▾

Messages About

Track Info Summary Report ▾

participant_sid	track	type	codec	lost	sent	rcvd	b_sent	b_rcvd	fr	w	h
PA98c820ed26e6a0afed828f329cdee7eb	MT4ee93250d983adb1293004574b65fc9	local	VP8	-----	289	174574	-----	-----	24	320	180
PA98c820ed26e6a0afed828f329cdee7eb	MTe725126b20efa47556ad72c235cd0fa6	local	opus	0	141	1465	-----	-----	-----	-----	-----

bot APP 5:51 PM  
No local tracks were lost for Room sid: RM71276d55a2065ed29c96cd4cbc9ab11b

No remote tracks were lost for Room sid: RM71276d55a2065ed29c96cd4cbc9ab11b

Mario Carreras 5:53 PM  
MTe725126b20efa47556ad72c235cd0fa6

bot APP 5:53 PM  
Information for track MTTe725126b20efa47556ad72c235cd0fa6

Track Info	
AccountSid	RoomSid
ACdc1d37b678ff7e113c1f3ccd4a0796d6	RM71276d55a2065ed29c96cd4cbc9ab11b
ParticipantSid	ID
PA98c820ed26e6a0afed828f329cdee7eb	01369cba-3b0d-4a64-8401-7e31f4378978
Type	Codec
localAudioTrack	opus
Bytes Sent	Packets Sent
1249	93
Packets Lost	RTT
0	100
Audio Level	Jitter
Unknown	6

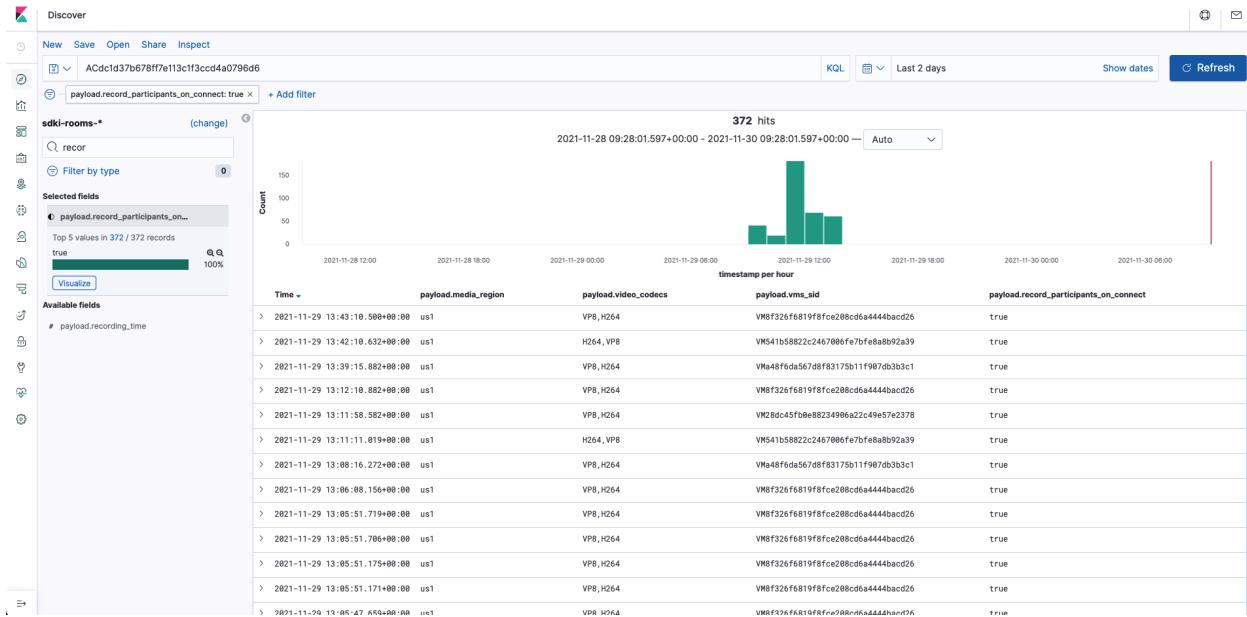
Programmable-Video Bot APP 5:53 PM

Track Events ▾

event	enabled	priority	timestamp
connected with track	False	standard	2021-11-29T13:05:38.595Z
enabled track	True	standard	2021-11-29T13:05:45.002Z
disabled track	False	standard	2021-11-29T13:05:45.659Z

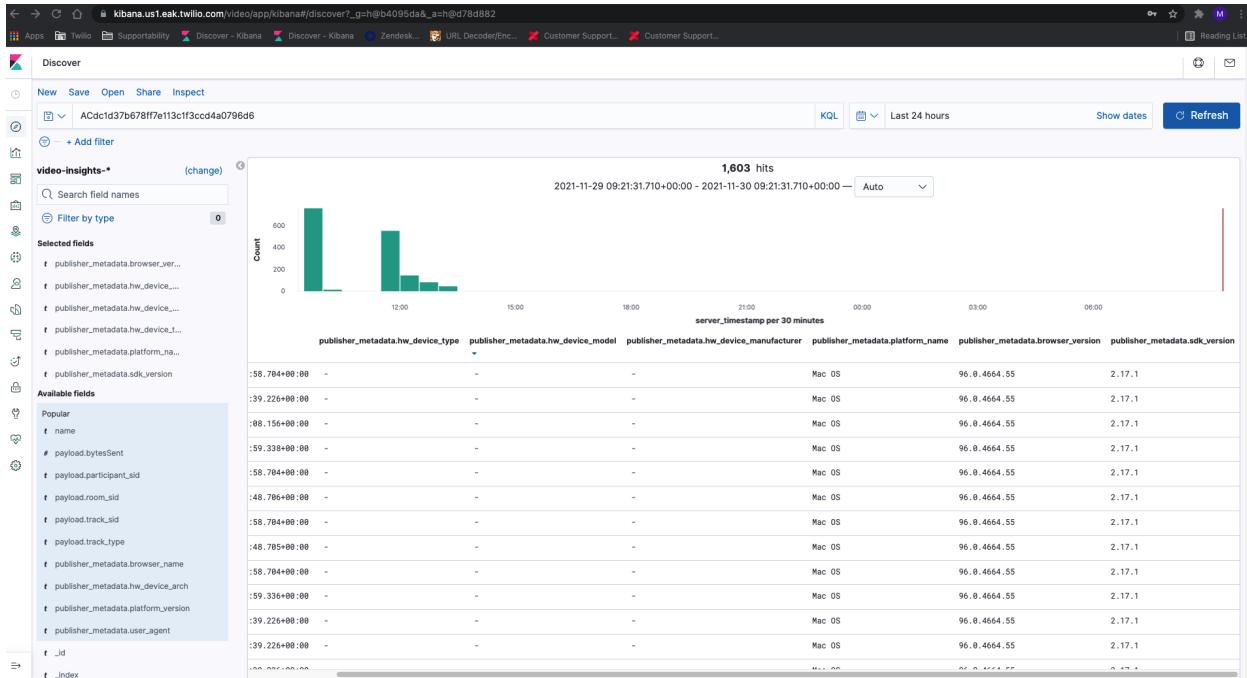
# Kibana

## sdk-rooms



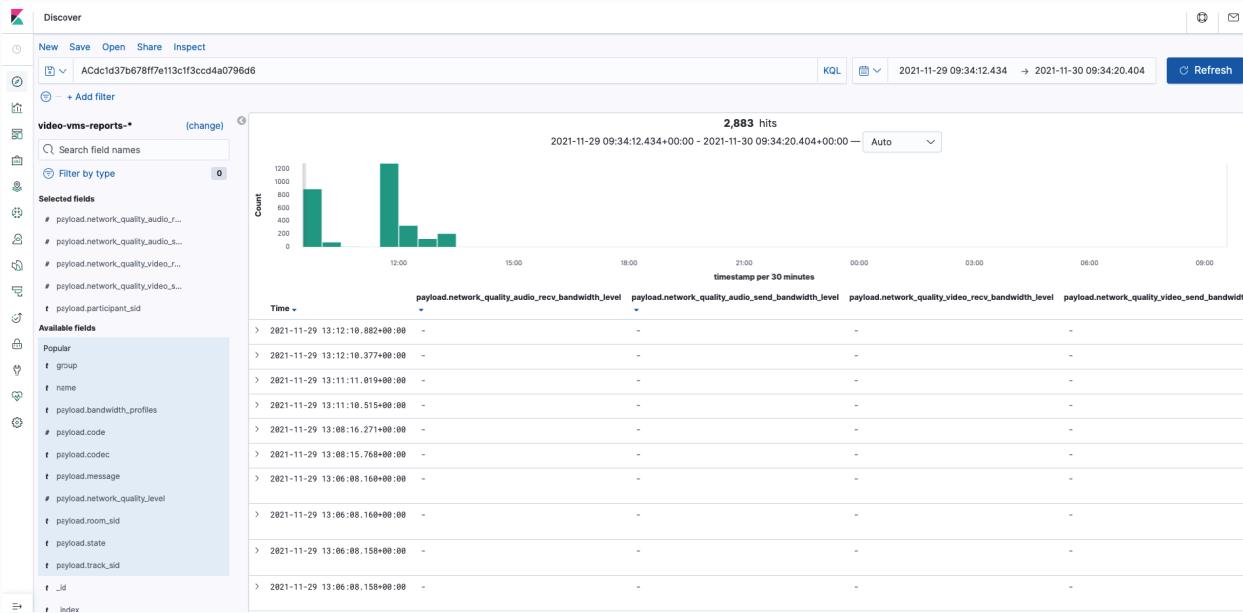
<https://kibana.us1.eak.twilio.com/video/goto/b288cd63256c6cf28eed2b9f747f104f>

## video-insights



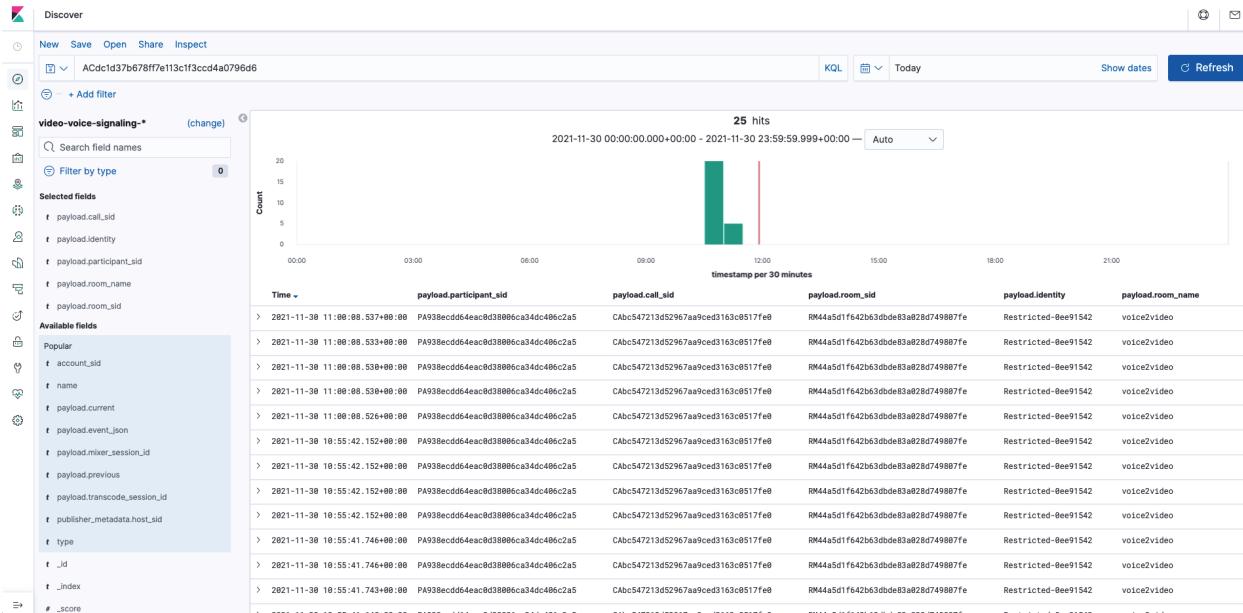
<https://kibana.us1.eak.twilio.com/video/goto/8cb79600f2fcfa7d90c358fb5e76f782c>

## **video-vms-reports**



<https://kibana.us1.eak.twilio.com/video/goto/c882b51785af2772b5f3be2ec4bc3396>

## **video-voice-signaling**



<https://kibana.us1.eak.twilio.com/video/qoto/523c1f8a3852b62ecc0b9dc58c3baa41>

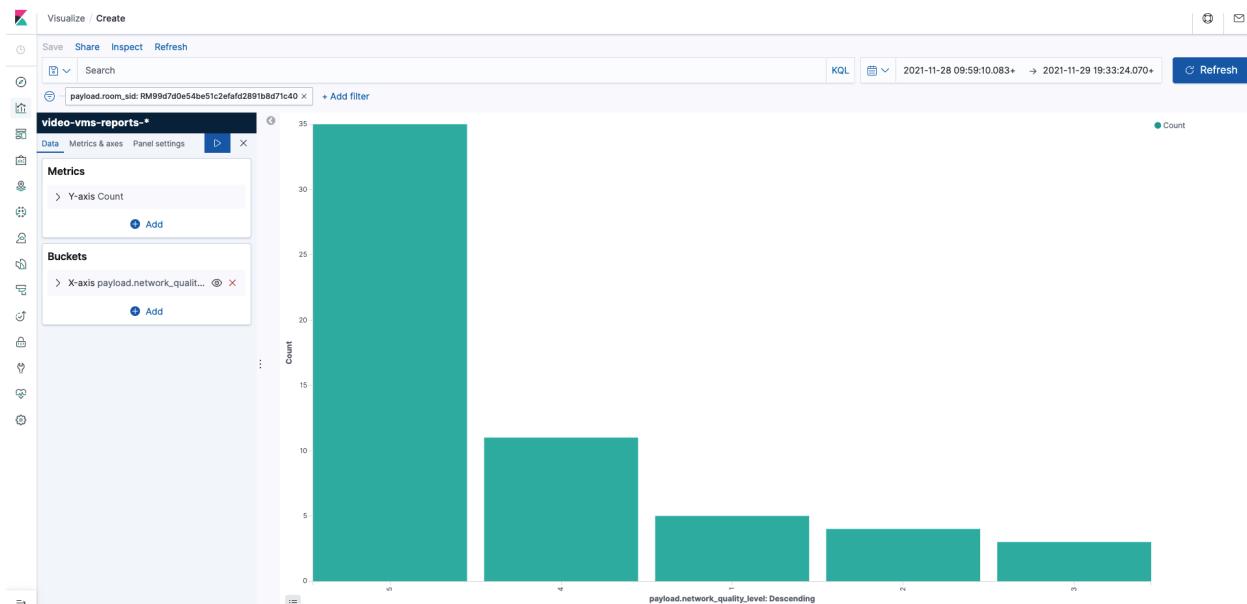
## Network Quality Scores

The screenshot shows the Kibana Discover interface with the following details:

- Search Bar:** payload.room\_sid: RM99d7d0e54be51c2efaf2891b8d71c40
- Time Range:** 2021-11-28 09:55:17.989+00:00 - 2021-11-30 09:55:17.989+00:00
- Hits Count:** 888 hits
- Selected Fields:** payload.network\_quality\_level, payload.participant\_sid, payload.room\_sid
- Available Fields:** Popular, payload.bandwidth\_profiles, payload.code, payload.message, payload.network\_quality\_audio\_recv..., payload.reporting\_sid, payload.state, payload.track\_sid
- Table Headers:** Time, payload.network\_quality\_level, payload.room\_sid, payload.participant\_sid
- Table Data:** A list of 888 entries, each containing a timestamp, a network quality level (e.g., 5, 4, 3, 2, 1), a room SID, and a participant SID.

<https://kibana.us1.eak.twilio.com/video/goto/cb63a823d3deb0f134f0b2916f1d466d>

## Network Quality Scores Visualization



<https://kibana.us1.eak.twilio.com/video/goto/6c0244245ed934d058e2c3d9f0345282>

# Quantico

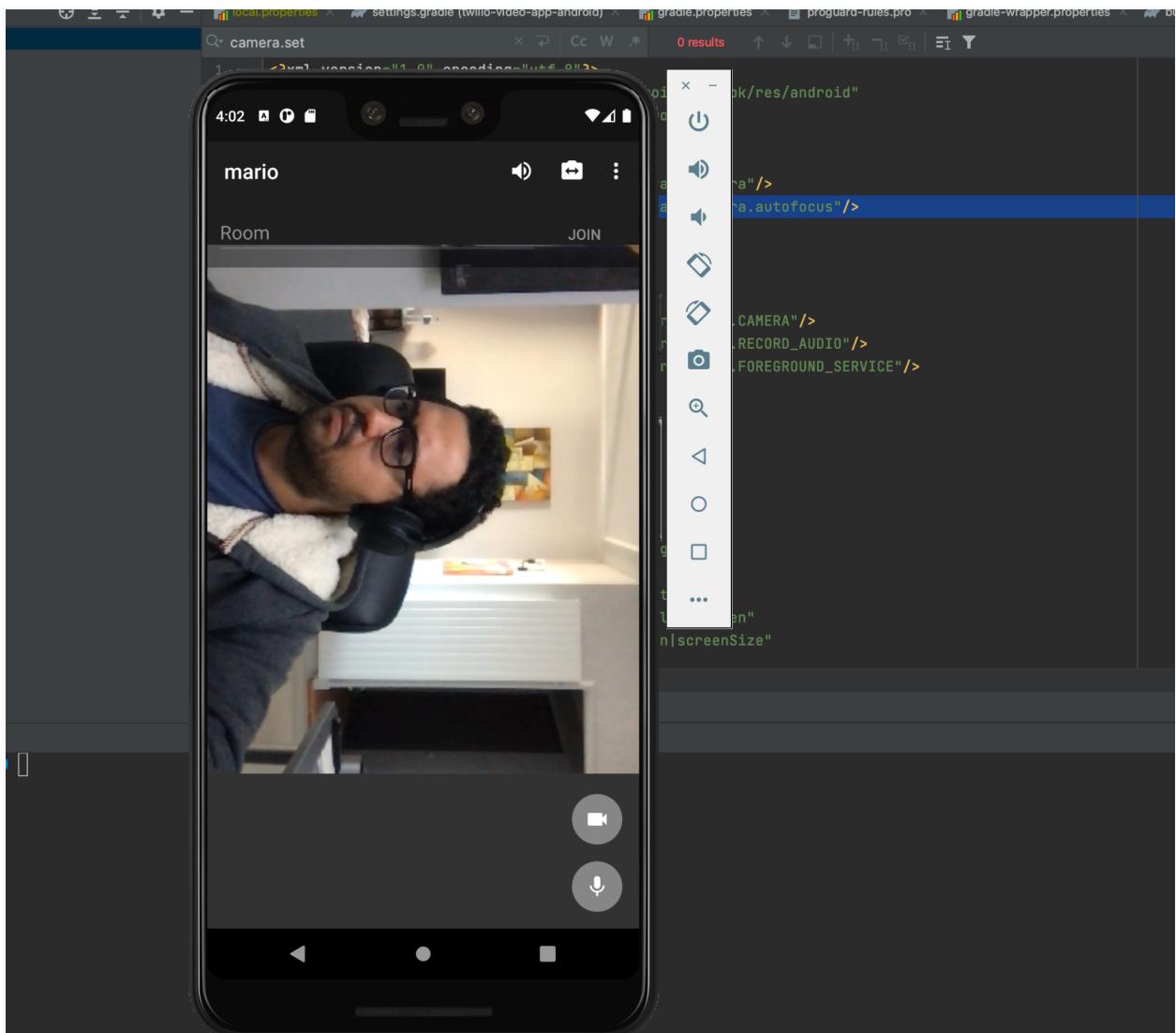
The screenshot shows the Google Cloud Platform Quantico interface. At the top, there's a navigation bar with 'Google Cloud Platform' and a dropdown for 'qtco-customer-support'. A search bar says 'Search products and resources'. Below the navigation is a toolbar with icons for 'FEATURES & INFO', 'SHORTCUT', 'DISABLE EDITOR TABS', 'EDITOR' (active), 'SAVE', 'SCHEDULE', 'MORE', and 'COMPOSE NEW QUERY'. A message at the top right says 'This query will process 122.8 GB when run.' The main area is titled 'Explorer' with a search bar for 'media'. It lists 90 results under 'app.media.gateway.trx.service' with various time intervals (last\_1\_hour, last\_3\_days, etc.). A specific row is selected, showing a detailed view of a query result. The result table has columns: Row, PARTITIONTIME, PARTITIONDATE, timestamp, and message. The message column contains a long JSON string representing a video composition. Below the table are tabs for 'PERSONAL HISTORY', 'PROJECT HISTORY', and 'SAVED QUERIES'.

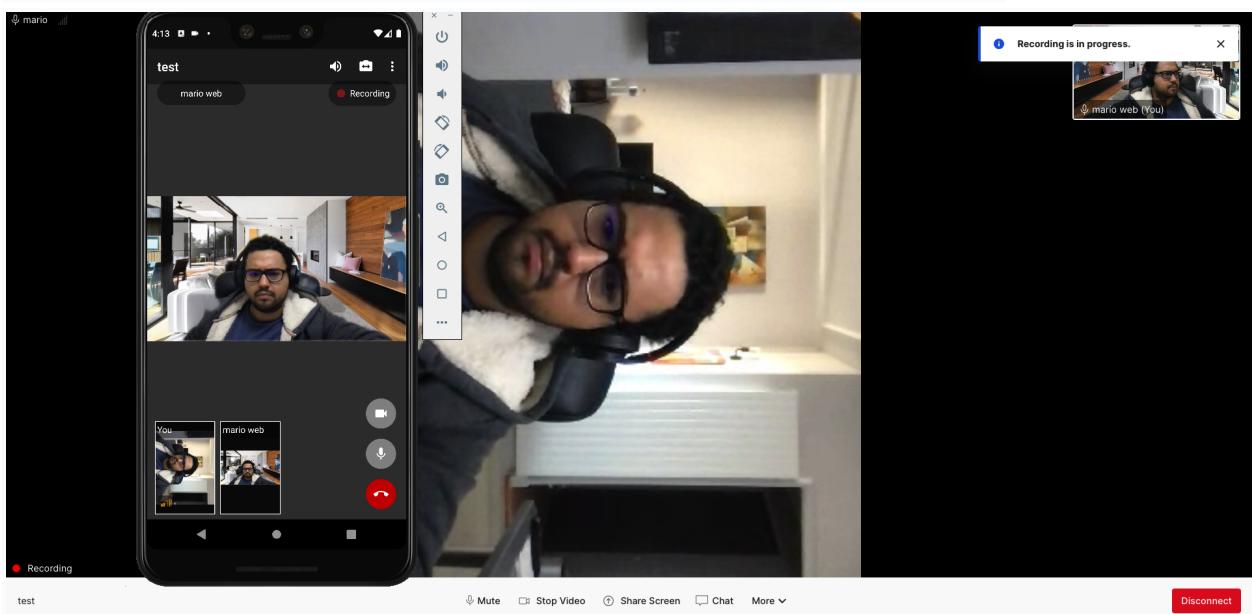
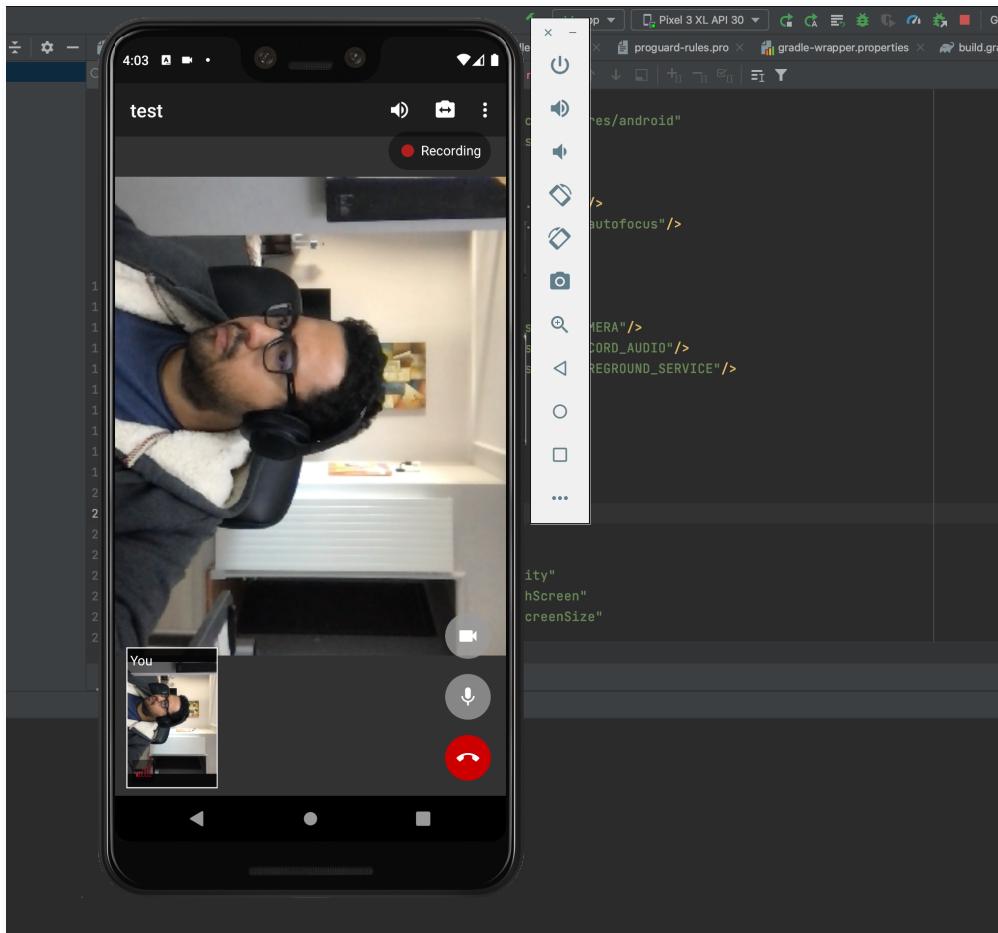
```

SELECT
  *
FROM
  `qtco-customer-support.prod.app_media_composer_service_service_last_3_days`
WHERE
  message LIKE "%CJ1953269e9277f44f9306c5db2be33a45%"
  AND thread_id LIKE "%POST%"
ORDER BY
  timestamp DESC
LIMIT
  10;
  
```

[Link to Quantico Query](#)

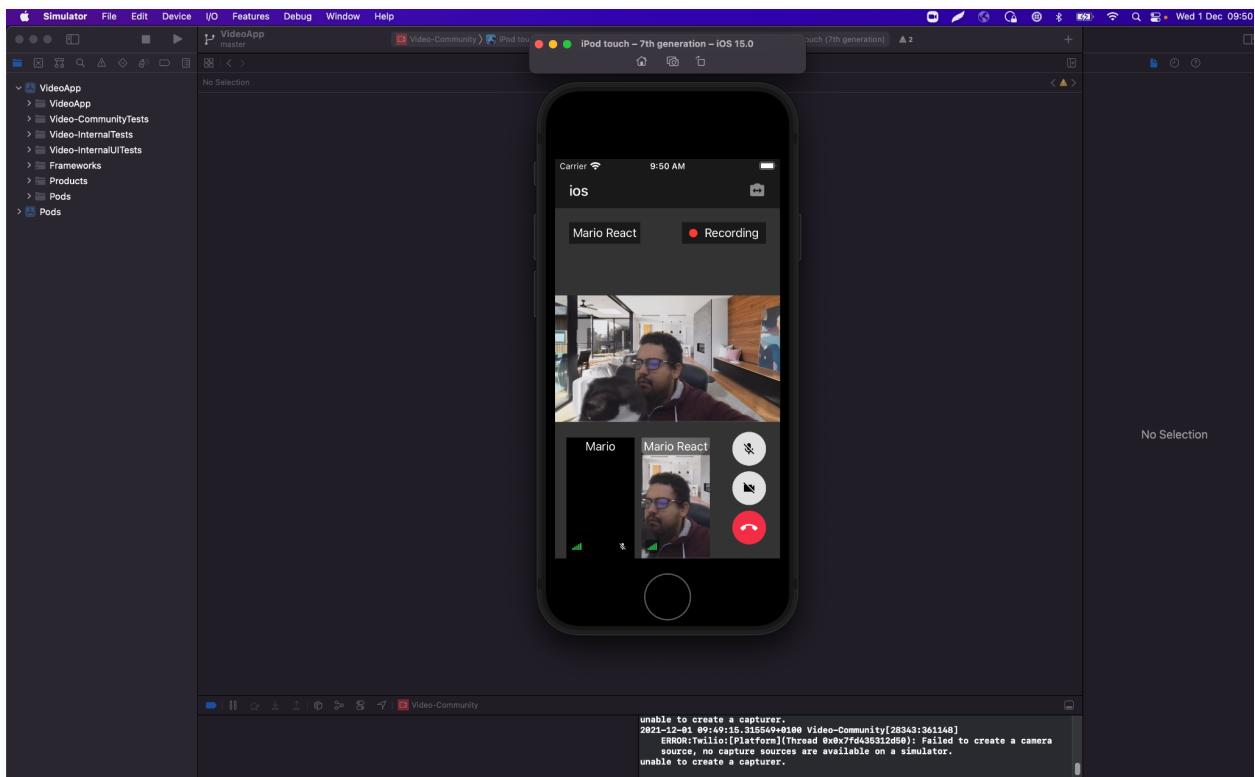
# Android





Room Sid: RMa276c487a16b555320a09a1040057ba3

# iOS



Room Sid: RM7adbfd2bb1c0e4f63434aade42e1d6ff

Headers	
connection	close
user-agent	TwilioProxy/1.1
content-length	228
x-home-region	us1
accept	*/*
x-twilio-signature	ynHY60bRIIFJp8Yrvqos/8+T8/A=
i-twilio-idempotency-token	e793e32d-c79c-4c47-89f8-b207553e673f
content-type	application/x-www-form-urlencoded; charset=UTF-8
host	webhook.site
Form values	
RoomStatus	in-progress
RoomType	group
RoomSid	RM7adbfd2bb1c0e4f63434aade42e1d6ff
RoomName	ios
SequenceNumber	0
StatusCallbackEvent	room-created
Timestamp	2021-12-01T08:46:58.714Z
AccountSid	ACdc1d37b678ff7e113c1f3cccd4a0796d6

Format JSON  Word-Wrap