Video Analysis API Reference

Corvane Context API, version 2

Applies to	Corvane Context API v2.4
Audience	Developers integrating video classification and brand safety results into ad platforms and content tools
Last updated	October 20, 2026
Related pages	Authentication; Webhooks; Language Support; Taxonomy Reference; Methodology Document

Overview

The Video Analysis API classifies the content of a video file or stream. For each segment of the video, it returns the topics discussed, notable keywords, a brand safety risk level, and a sentiment score. It also returns a summary for the video as a whole.

Analysis is asynchronous. You submit a video, then either poll its status or wait for a webhook, and then retrieve the results:

1. Submit the video with `POST /video/analyses`. The API returns an `analysis_id`.
2. Check progress with `GET /video/analyses/{analysis_id}`, or provide a `callback_url` to be notified when analysis finishes.
3. When the status is `completed`, retrieve results with `GET /video/analyses/{analysis_id}/results`.

Before You Begin

Base URL

All endpoints in this reference are relative to `https://api.corvane.example/v2`.

Authentication

Send your API key as a bearer token in the `Authorization` header of every request. API keys are issued by your Corvane account team. Do not include keys in client-side code or public repositories.

Rate limits

Each API key may make up to 120 requests per minute. Requests above the limit receive a `429` response with a `Retry-After` header that states how many seconds to wait.

Supported media

Property	Supported values
Video formats	MP4, MOV, WebM, and HLS playlists (.m3u8)
Audio-only formats	MP3, WAV, and AAC. Audio-only files return topic, keyword, risk, and sentiment results based on the transcript alone.
Maximum duration	3 hours. Longer files are rejected with `413 media_too_large`.
Maximum file size	10 GB
Languages	Speech in 24 languages. See Language Support for the full list. Speech in other languages is not transcribed; segments are classified from visual content only.
Live streams	Not supported. Submit a recorded copy of the stream.

Endpoints

Method	Path	Description
POST	`/video/analyses`	Submit a video for analysis.
GET	`/video/analyses/{analysis_id}`	Get the status of an analysis.
GET	`/video/analyses/{analysis_id}/results`	Retrieve the results of a completed analysis.
DELETE	`/video/analyses/{analysis_id}`	Cancel an analysis that has not yet completed.

Submit a video

`POST /video/analyses`

Body field	Type	Required	Description
`video_url`	string	Yes	HTTPS URL of the media file or HLS playlist. The URL must be reachable by Corvane without signing in; signed URLs must remain valid for at least 6 hours.
`segment_seconds`	integer	No	Length of each analysis segment, from 5 to 60 seconds. Default: 15.
`callback_url`	string	No	HTTPS URL that receives a POST request when the analysis completes or fails. See Webhooks.
`taxonomy_version`	string	No	IAB Content Taxonomy version for topic results. Default: `3.0`.
`client_reference`	string	No	Your own identifier for the request, up to 128 characters. Returned unchanged in the results.

Example request

```
POST /v2/video/analyses
Authorization: Bearer <api_key>
Content-Type: application/json

{
  "video_url": "https://media.example.com/videos/kitchen-remodel.mp4",
  "segment_seconds": 15,
  "callback_url": "https://client.example.com/hooks/corvane",
  "client_reference": "campaign-2291"
}
```

Example response

```
HTTP/1.1 202 Accepted

{
  "analysis_id": "an_7f3c2e91",
  "status": "queued",
  "created_at": "2026-10-14T15:02:11Z",
  "status_url": "https://api.corvane.example/v2/video/analyses/an_7f3c2e91"
}
```

Get analysis status

`GET /video/analyses/{analysis_id}`

Poll no more than once every 15 seconds. For long videos, use a `callback_url` instead of polling.

Example response

```
{
  "analysis_id": "an_7f3c2e91",
  "status": "processing",
  "progress_percent": 40,
  "created_at": "2026-10-14T15:02:11Z",
  "updated_at": "2026-10-14T15:03:48Z"
}
```

Status	Meaning
`queued`	The request was accepted and is waiting to be processed.
`processing`	Media has been retrieved and is being analyzed. `progress_percent` shows approximate progress.
`completed`	Results are available from the results endpoint for 90 days.
`failed`	The analysis could not be completed. The response includes an `error` object explaining why.
`cancelled`	The analysis was cancelled with a DELETE request before it completed.

Retrieve results

`GET /video/analyses/{analysis_id}/results`

If the analysis has not completed, this endpoint returns `409 analysis_not_complete`. The example below is shortened to two segments.

Example response


```
{
  "analysis_id": "an_7f3c2e91",
  "status": "completed",
  "client_reference": "campaign-2291",
  "media": {
    "duration_seconds": 184.5,
    "language": "en",
    "segment_seconds": 15
  },
  "summary": {
    "risk_level": "medium",
    "topics": [
      { "name": "Home Improvement", "confidence": 0.94 },
      { "name": "Personal Finance", "confidence": 0.71 }
    ],
    "sentiment": { "label": "positive", "score": 0.48 }
  },
  "segments": [
    {
      "start_seconds": 0.0,
      "end_seconds": 15.0,
      "transcript_available": true,
      "topics": [
        { "name": "Home Improvement", "tier1": "Home & Garden", "confidence": 0.96 }
      ],
      "keywords": ["cabinets", "countertop", "budget"],
      "risk": { "level": "none", "categories": [] },
      "sentiment": { "label": "positive", "score": 0.62 }
    },
    {
      "start_seconds": 15.0,
      "end_seconds": 30.0,
      "transcript_available": true,
      "topics": [
        { "name": "Home Improvement", "tier1": "Home & Garden", "confidence": 0.88 }
      ],
      "keywords": ["power tools", "injury", "safety glasses"],
      "risk": {
        "level": "medium",
        "categories": [ { "name": "death_and_injury", "confidence": 0.67 } ]
      },
      "sentiment": { "label": "neutral", "score": 0.05 }
    }
  ],
  "topics_legacy": ["IAB10"]
}
```

Results Field Reference

Field	Type	Description
`analysis_id`	string	Unique identifier for the analysis.
`client_reference`	string	The value you supplied when submitting, if any.
`media.duration_seconds`	number	Length of the analyzed media.
`media.language`	string	Primary spoken language detected, as an ISO 639-1 code. `null` if no speech was detected.
`summary.risk_level`	string	Highest risk level found in any segment: `none`, `low`, `medium`, `high`, or `floor`. Levels are defined in the Methodology Document.
`summary.topics`	array	Topics that apply to the video as a whole, ordered by confidence. Only topics with confidence of 0.60 or higher are returned.
`summary.sentiment`	object	Overall sentiment. `label` is `positive`, `neutral`, or `negative`; `score` ranges from -1.0 to 1.0.
`segments[]`	array	One object for each segment, in time order.
`segments[].transcript_available`	boolean	`false` if the segment had no speech or the language is not supported. Results for that segment are based on visual content only.
`segments[].keywords`	array	Up to 10 notable terms from the segment's transcript and on-screen text.
`segments[].risk.categories`	array	Risk categories detected in the segment, with confidence scores. Empty when `level` is `none`.
`topics_legacy`	array	Deprecated. See Deprecations below.

Errors

Errors return an HTTP status code and an `error` object. Include the `request_id` when contacting support.

Example error

```
HTTP/1.1 422 Unprocessable Entity

{
  "error": {
    "code": "media_unreachable",
    "message": "The video_url returned HTTP 403. Confirm the file is publicly
accessible or provide a signed URL.",
    "request_id": "req_0b44d1"
  }
}
```

HTTP	Error code	What to do
400	`invalid_request`	A field is missing or has an invalid value. The message names the field.
401	`unauthorized`	The API key is missing, invalid, or revoked.
404	`not_found`	No analysis exists with that ID for your account.
409	`analysis_not_complete`	Results were requested before the analysis completed. Check the status and try again.
413	`media_too_large`	The media exceeds the maximum duration or file size.
415	`unsupported_media`	The file format is not supported. See Supported media.
422	`media_unreachable`	Corvane could not download the media. Confirm the URL is accessible without signing in.
429	`rate_limited`	Too many requests. Wait for the number of seconds in the `Retry-After` header.
500	`internal_error`	An unexpected error occurred. Retry with exponential backoff; contact support if it continues.

Deprecations

> **Deprecated: topics_legacy**
>
> The `topics_legacy` field returns topic codes from IAB Content Taxonomy 1.0 for older integrations. It was deprecated in API v2.3 and will be removed on March 31, 2027. Use `summary.topics` and `segments[].topics`, which return IAB Content Taxonomy 3.0 topics by default. Requests made after the removal date will not return this field; no other change to the response is planned.

Changelog

Version	Date	Change
v2.4	October 20, 2026	Added audio-only formats (MP3, WAV, AAC). Raised maximum duration from 2 to 3 hours.
v2.3	June 2, 2026	Added `summary.sentiment`. Deprecated `topics_legacy`.
v2.2	January 12, 2026	Added `client_reference` and the DELETE endpoint for cancelling analyses.