

SportsTrace

Moneyball for Motion

TURNING GAME AND PRACTICE VIDEO INTO WAYS TO TRAIN SMARTER

Azure Marketplace Offering

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SportsTrace API - Intro

The **SportsTrace API** provides a programmatic capability for uploading video and returning the data that hydrates pre-built visualizations. The visualizations are provided as a courtesy for free use. You can also use the data outside of the visualizations.

This document reviews:

- Email confirmation and API key delivery,
- API Calls and detailed information on how to use API calls for submitting jobs, checking job statuses, and retrieving job details for currently supported endpoints, and
- Web Component Visualizations with instructions on implementing prebuilt visualizations for MP4 video files on web pages.

EMAIL CONFIRMATION

THE EMAIL

- Part 1 Access
- Part 2 Endpoints (Visualizations)
- Part 3 Web Component implementation

o P ー ロ ×
File Message Insert Options Format Text Review Help
Image: Construction of the co
Send To
Bcc
Subject September ADI Key usand
We got you an API Key: xxx-xxx-xxx-xxx
new job for video processing. A successful response is a 200 with a <u>JobId</u> - that ID uniquely defines the submitted clip as well as all associated analysis. When submitting a job, you also must submit a <u>SportActivityId</u> that uniquely defines the motion that we're looking to analyze. The <u>SportActivityId</u> definitions can be queries via the Get SportSTrace <u>SportActivityIs</u> API. You can check on the status of any <u>JobId</u> via the Get Job Status API. Responses here are InProgress, Complete, and in rare cases Failed.
These APIs are authenticated via the X-API-KEY header. Again, your API key is xxx-xxx-xxx-xxx-xxx .
The prebuilt visualizations currently are enabled for MP4 video only. You can add any visualization to a webpage by adding the
appropriate script and leveraging the html tag associated with that script.
There are 6 prehuilt visualizations (with TAGS and SCRIPTS):
1. Video player
a. TAG: st-single-video-mp4
 b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/singlevideo-mp4/build.js' Compare Overlay
a TAG'stron-hottom-mn4
 b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/compareoverlay-mp4/build.js'
3. Top Bottom compare
a. TAG: st-compare-overlay-mp4
 SCHIPI: https://sportstracejobsprod.blob.core.windows.net/\$web/topbottom-mp4/build.js* Sida by side compare
a. TAG: st-side-by-side-mp4
b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/sidebyside-mp4/build.js'
5. Analytics graph
a. TAG: st-analytics



EMAIL Part 1

We got you an API Key: xxx-xxx-xxx-xxx

I have attached a postman collection with a few simple APIs. The most important here is the POST method that submits a new job for video processing. A successful response is a 200 with a JobId - that ID uniquely defines the submitted clip as well as all associated analysis. When submitting a job, you also must submit a SportActivityId that uniquely defines the motion that we're looking to analyze. The SportActivityId definitions can be queries via the Get SportsTrace SportActivities API.

You can check on the status of any JobId via the Get Job Status API. Responses here are InProgress, Complete, and in rare cases Failed.

These APIs are authenticated via the X-API-KEY header. Again, your API key is xxx-xxx-xxx-xxx-xxx.



EMAIL Part 2

The prebuilt visualizations currently are enabled for MP4 video only. You can add any visualization to a webpage by adding the appropriate script and leveraging the html tag associated with that script.

There are 6 prebuilt visualizations (with TAGS and SCRIPTS):

- 1. Video player
 - a. TAG: st-single-video-mp4
 - b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/singlevideo-mp4/build.js'
- 2. Compare Overlay
 - a. TAG: st-top-bottom-mp4
 - b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/compareoverlay-mp4/build.js'
- 3. Top Bottom compare
 - a. TAG: st-compare-overlay-mp4
 - b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/topbottom-mp4/build.js'
- 4. Side by side compare
 - a. TAG: st-side-by-side-mp4
 - b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/sidebyside-mp4/build.js'
- 5. Analytics graph
 - a. TAG: st-analytics
 - b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/analytics/build.js'
- 6. Kinematic sequence graph
 - a. TAG: st-kinematic-sequence
 - b. SCRIPT: 'https://sportstracejobsprod.blob.core.windows.net/\$web/kinematicsequence/build.js'



EMAIL Part 3

The scripts can be added in the HTML footer as follows:

<script

src=https://sportstracejobsprod.blob.core.windows.net/\$web/kinematicsequence/build.js></s
cript>

The UI components can be leveraged as follows:

- Single Video Example <div class="st-single-video-mp4" data-client-"jobs" datakey="YOUR-API-KEY" data-id="YOUR-JOB-ID">
- Two Video Example <div class="st-compare-overlay-mp4" data-client-"jobs" datakey="YOUR-API-KEY" data-id="YOUR-JOB-ID" data-id-second="YOUR-JOB-ID-2">

Each visualization requires both your API Key as well as a JobId to render the component. As demonstrated above, for visualizations with multiple videos, multiple JobIds are required.



API CALLS

POST/GET

ENDPOINTS

| SportsTrace Jobs | |
|--------------------------------------|--|
| ✓ 	☐ Jobs | |
| POST Upload Video | |
| POST MP4 URL Upload | |
| GET Get Job Status | |
| GET Get Job | |
| GET Get Job MP4 URL | |
| GET Get SportsTrace Sport Activities | |
| | |

https://st-jobsservice-prod-centralus.azurewebsites.net/v1.0/jobs/sportActivities

SportsTrace Jobs

| ~ E | Jobs |
|------------|--------------------------------------|
| P | DST Upload Video |
| P | ost MP4 URL Upload |
| | GET Get Job Status |
| | GET Get Job |
| | GET Get Job MP4 URL |
| | GET Get SportsTrace Sport Activities |
| | |

Sample Response

https://sportstracejobsprodcus.blob.core. windows.net/9a8c0287-eeb6-4a5a-8b6db00b27f90a95/82ce0cff-e0aa-4c40-a38df612f8dfff34/20250211181517_Andrew McCutchen.mp4?sv=2024-05-04&se=2025-02-

11T19%3A49%3A38Z&sr=b&sp=r&sig=4Ca 77RXEfiNaotrqR9wj8jcpvfh6yRJEbbA%2B %2BkbDN%2F4%3D

https://st-jobsservice-prod-centralus.azurewebsites.net/v1.0/jobs/upload/{{SportActivityId}}

Jobs

POST Upload Video

POST MP4 URL Upload

GET Get Job Status

GET Get Job

GET Get Job MP4 URL

GET Get SportsTrace Sport Activities

| 👼 SportsTrace Jobs / Jobs / Get Job Status | | | | | Share |
|--|--|--|---|------|-------|
| GET · https://st-jobsservice-prod-centralus.azu | rewebsites.net/v1.0/jobs/ {[jobId]} /status | | | Send | d ~ |
| Params Authorization Headers (8) Body Script | | | | | |
| Auth Type API Key ~ | Heads upl These parameters hold sensitive da
about <u>variables</u>. | ta. To keep this data secure while working in a co | laborative environment, we recommend using variables. Learn | more | |
| The authorization header will be automatically generated
when you send the request. Learn more about API Key
authorization. | Koy | X-API-KEY | | | |
| | Value
Add to | ((APIKEY)):
Header ~ | | | |

"jobId": "82ce0cff-e0aa-4c40-a38d-f612f8dfff34", "jobStatus": "Complete"

https://st-jobsservice-prod-centralus.azurewebsites.net/v1.0/jobs/{{jobId}}

| | | Sample Response | |
|---|--|---|--------|
| ~ s | SportsTrace Jobs | | |
| ~ | 🔁 Jobs | | |
| | POST Upload Video | | |
| | POST MP4 URL Upload | | |
| | GET Get Job Status | | |
| | GET Get Job | ſ | |
| | GET Get Job MP4 URL | ت "jobId": "82ce0cff-e0aa-4c40-a38d-f612f8dfff34", | |
| | GET Get SportsTrace Sport Activities | "jobStatusId": 2,
"jobEileTypeId": 1 | |
| | | "sportActivityId": 0, | |
| | | "videoName": "20250211181517_Andrew McCutchen.mp4'
"videoBlobUBL": "82ce0cff_e0aa-7c40-a38d- | י
י |
| | | f612f8dfff34/20250211181517_Andrew McCutchen.mp4", | |
| | | "framesBlobURL": "82ce0cff-e0aa-4c40-a38d-
f612f8dfff34/frames.ison" | |
| | | analyticsBlobURI ": "82ce0cff-e0aa-4c40-a38d- | |
| | s Jobs / Jobs / Get Job Status | f612f8dfff34/analytics ison" | |
| GET ~ | https://st-jobssenvice-prod-centralus.azurewebsites.net/v10/job/ ((job/d)) /status | "fns"· 29 97 | |
| Params Author
Auth Type | rization + Headers (8) Body Scripts Tests Settings | "width" 854 | |
| API Key | V reads up i nese parameters noto senative data, to keep this data secure while working in a collabor
about yaristites. | "height": 480 | |
| The authorization h
when you send the
authorization | header will be automatically generated
request_Learn more about <u>API-KEY</u> Key X-API-KEY | "rotate": 0 | |
| | Volue ((APIKEY)) | } | |
| | Add to Header - | | |
| | | | |

spo trace

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|--------------------|--------|------------------|
|--------------------|--------|------------------|

🗸 🗋 Jobs

POST Upload Video

POST MP4 URL Upload

GET Get Job Status

GET Get Job

GET Get Job MP4 URL

GET Get SportsTrace Sport Activities

Sample Response

https://sportstracejobsprodcus.blob.core.windows.net/9a8c02 87-eeb6-4a5a-8b6d-b00b27f90a95/82ce0cff-e0aa-4c40-a38df612f8dfff34/20250211181517 Andrew McCutchen.mp4?sv=2024-05-04&se=2025-02-11T19%3A49%3A38Z&sr=b&sp=r&sig=4Ca77RXEfiNaotrqR9wj8 jcpvfh6yRJEbbA%2B%2BkbDN%2F4%3D

https://st-jobsservice-prod-centralus.azurewebsites.net/v1.0/jobs/{{jobId}}/mp4

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POST Upload Video

POST MP4 URL Upload

GET Get Job Status

GET Get Job

GET Get Job MP4 URL

GET Get SportsTrace Sport Activities

Sample Response

DEPRECATED DO NOT USE

SAMPLE SCREENS

VISUALIZATIONS

ECOCE

Upload your video

Understand your game

Upload your video

Compare

Compare

Analyze

SportsTrace

Measure what matters.

emailus@sportstrace.com

https://www.sportstrace.com