

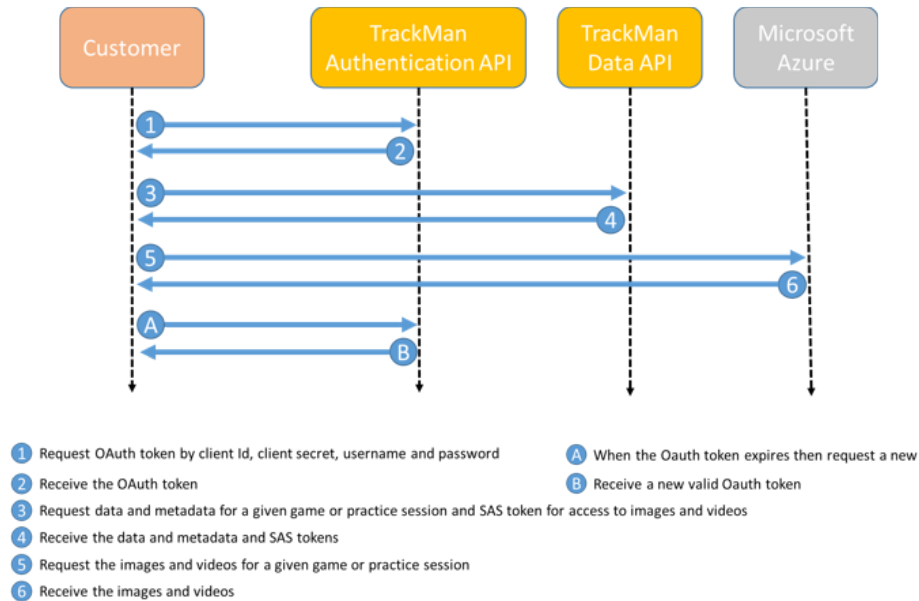
TrackMan Baseball API Quick Start Guide for Customers v3.1

This document will serve as the primary technical documentation on how to get started with the TrackMan Baseball Data API.

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Overview



Prerequisites

- For you to be able to communicate with TrackMan Data API you will need to have an OAuth 2.0 Bearer Token
- In order to obtain a OAuth 2.0 Bearer Token you will need to have a set of credentials:
 - Client Id
 - Client Secret
- These credentials can be obtained through the Team Portal
 - Select 'Management' tab
 - Select 'Data integration'
 - Select 'Add Client'
- If no 'Data integration' option is available please reach out to your Trackman sales rep or the Trackman Data Desk.

Environments

- Production – use this for accessing data from your production systems
 - <https://login.trackman.com/connect/token>
 -  Swagger UI
 - To view the Swagger page, use your clientId and password when prompted for a username and password.

Endpoints

The following table shows which data types is coming from which endpoint.

Endpoint Type	Endpoint URL	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/balls/ <session_identifier>	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/bats/ <session_identifier>	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/plays/ <session_identifier>	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/session/ <session_identifier>	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/biomech/hitter3dpose/ <session_identifier>	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/biomech/hittermetrics/ <session_identifier>	
Practice data	https://dataapi.trackmanbaseball.com/api/v1/data/practice/balls/ <session_identifier>	
Practice data	https://dataapi.trackmanbaseball.com/api/v1/data/practice/plays/ <session_identifier>	
Practice data	https://dataapi.trackmanbaseball.com/api/v1/data/practice/session/ <session_identifier>	

Game discover y	https://dataapi.trackmanbaseball.com/api/v1/discovery/game/sessions	
Practice discover y	https://dataapi.trackmanbaseball.com/api/v1/discovery/practice/sessions	
Game media	https://dataapi.trackmanbaseball.com/api/v1/media/game/imagetokens/ <session_identifier>	
Game media	https://dataapi.trackmanbaseball.com/api/v1/media/game/videotokens/ <session_identifier>	
Practice media	https://dataapi.trackmanbaseball.com/api/v1/media/practice/videotokens/ <session_identifier>	
Practice metadata	https://dataapi.trackmanbaseball.com/api/v1/media/practice/videometadata/ <session_identifier>	

Obtain OAuth token

Request

This Part has Been deprecated please check the new example below

In order to get access tokens from the provided credentials, A POST request must be issued as shown below:

```

1 This is the old way which is now deprecated
2 curl --location --request POST
  'https://login.trackman.com/connect/token'
3 --header 'Content-Type: application/x-www-form-urlencoded'
4 --data-urlencode 'client_id=<client_id>'
5 --data-urlencode 'client_secret=<client_secret>'
6 --data-urlencode 'grant_type=password'
7 --data-urlencode 'username=<username>'
8 --data-urlencode 'password= <password>'

```

In order to get access tokens from the provided credentials, A POST request must be issued as shown below:

```

1 curl --location --request POST
  'https://login.trackman.com/connect/token'
2 --header 'Content-Type: application/x-www-form-urlencoded'
3 --data-urlencode 'client_id=<client_id>'
4 --data-urlencode 'client_secret=<client_secret>'

```


client credentials and the refresh token are required.

The following request template can be used to have a new access token issued:

```
1 curl --location --request POST
  'https://login.trackman.com/connect/token'
2 --header 'Content-Type:application/x-www-form-urlencoded'
3 --data-urlencode 'client_id=<client_id>'--data-urlencode
  'client_secret=<client_secret>'
4 --data-urlencode 'grant_type=refresh_token'--data-urlencode
  'refresh_token=<refresh_token>'
```

The response will have the identical format as when obtaining the original token.

Discovering of sessions

Game Sessions

In order to query for stadium/backfield game sessions the following request template should be used:

```
1 curl -X POST
  "https://dataapi.trackmanbaseball.com/api/v1/discovery/game/sessions"
2 -H "accept: text/plain"
3 -H "Content-Type: application/json-patch+json"
4 -d "{\"sessionType\":\"All\",\"utcDateFrom\":\"2021-01-
  01T08:51:06.785Z\",\"utcDateTo\":\"2021-01-02T08:51:06.785Z\"}"
```

- The SessionType parameter must be All, Standard, Adhoc, or BattingPractice.
- The utcDateFrom and utcDateTo parameters cannot span more the 30 consecutive dates.
- FieldShortName and FieldId are optional parameters that can help discover data from a specific field.

The response will be an array of high-level session metadata that can be used to determine which sessions are relevant. The response also includes the session identifier which must be used as a key in later queries.

```
1 [
2   {
3     "version": "1.1.0",
4     "sessionId": "73bf2768-3f3e-47b5-a1c3-01aee819b981", "gameDateUtc":
5     "2020-06-11T09:23:03.389Z",
6     "externalSessionId": "1000109812", "gameDateLocal": "2020-06-
7     11T09:23:03.3899517Z", "sessionType": "Standard", "verified": true,
8     "location": { field": { "name": "RELEASE APP TEST FIELD",
9     "shortName": "RELEASE APP TEST FIELD" }, "venue": { "name":
10    "RELEASE TRACKMAN HQ" } },
11    "level": { "id": "b551ce69-3b6a-49e7-b7fa-5420d66f1bd6", "name":
12    "D1" },
13    "league": { "id": "0b04bbcb-e7c9-4318-a53e-7ee9d280f6b8", "name":
14    "American League", "shortName": "AL" },
15    "homeTeam": { "name": "Pioneer Athletic Conference HS All Stars",
16    "shortName": "PIO_ATH" },
17    "awayTeam": { "name": "Rutgers Scarlet Knights", "shortName":
18    "RUT_SCA" }
```

```
11   }
12 ]
```

Practice sessions

In order to query for practice sessions the following request template should be used:

```
1 curl -X POST
  "https://dataapi.trackmanbaseball.com/api/v1/discovery/practice/sessions"
2 -H "accept: text/plain"
3 -H "Content-Type: application/json-patch+json"
4 -d '{"sessionType": "All", "utcDateFrom": "2021-01-01T08:51:06.785Z", "utcDateTo": "2021-01-02T08:51:06.785Z"}'
```

- The utcDateFrom and utcDateTo parameters cannot span more the 30 consecutive dates.
- The SessionType parameter must be All, Pitching, or Hitting.

The response will be an array of high-level session metadata that can be used to determine which sessions are relevant. The response also includes the session identifier which must be used as a key in later queries.

```
1 [
2   {
3     "version": "1.1.0",
4     "sessionId": "73bf2768-3f3e-47b5-a1c3-01aee819b981",
5     "externalSessionId": "11739",
6     "gameDateUtc": "2020-06-11T09:23:03.389Z",
7     "gameDateLocal": "2020-06-11T09:23:03.3899517Z",
8     "sessionType": "Pitching"
9   }
10 ]
```

Query for Data

Single Game session

Assuming the session identifier is known the following request should be used in order to get access to the data for a single session.

```
1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/data/game/session/<session_id>' \
2 --header 'Authorization: Bearer <access_token>
```

The response will contain high-level session metadata. The response also includes the session identifier which must be used as a key in later queries.

```
1 {
2   "version": "1.1.0",
3   "sessionId": "73bf2768-3f3e-47b5-a1c3-01aee819b981", "gameID":
  "20250828-DemoField-2" "gameDateUtc": "2020-06-11T09:23:03.389Z",
4   "externalSessionId": "1000109812", "gameDateLocal": "2020-06-11T09:23:03.3899517Z", "sessionType": "Standard", "verified": true,
```

```

5     "location": { field": { "name": "RELEASE APP TEST FIELD",
"shortName": "RELEASE APP TEST FIELD" },    "venue": { "name":
"RELEASE TRACKMAN HQ" } },
6     "level": { "id": "b551ce69-3b6a-49e7-b7fa-5420d66f1bd6", "name":
"D1" },
7     "league": { "id": "0b04bbcb-e7c9-4318-a53e-7ee9d280f6b8", "name":
"American League", "shortName": "AL" },
8     "homeTeam": { "name": "Pioneer Athletic Conference HS All Stars",
"shortName": "PIO_ATH" },
9     "awayTeam": { "name": "Rutgers Scarlet Knights", "shortName":
"RUT_SCA" }
10  }

```

Game Ball data

Assuming the session identifier is known the following request should be used in order to get access to ball data from a stadium/backfield system.

```

1  curl --location --request GET
   'https://dataapi.trackmanbaseball.com/api/v1/data/game/balls/<session_i
   dentifier>' \
2  --header 'Authorization: Bearer <access_token>'

```

The response will be a list of balls that was tracked during a session. They can be of the Kind Pitch, Hit, or CatcherThrow.

Pitch

```

1  {
2    "version": "1.0.0",
3    "playId": " 2c708258-c64c-4088-800e-7ed2d7be6b14 ",
4    "trackId": " f1f760ae-912e-4b73-8dde-683289da44fb ",
5    "trackStartTime": "2022-06-23T01:22:31.46373Z",
6    "kind": "Pitch",
7    "pitch": {
8      "release": {
9        "relSpeed": 66.62449,
10       "spinRate": 1668.8065,
11       "extension": 4.12049,
12       "vertRelAngle": 2.120296,
13       "horzRelAngle": -1.713926,
14       "relHeight": 5.33996,
15       "relSide": 1.78252,
16       "confidence": "High"
17     },
18     "movement": {
19       "horzBreak": 13.60276,
20       "vertBreak": -50.452,
21       "inducedVertBreak": 17.86666,
22       "spinAxis": 221.47131,
23       "tilt": "1:30",
24       "confidence": "High"
25     },
26     "location": {
27       "zoneTime": 0.594896,
28       "plateLocHeight": 3.17171,
29       "plateLocSide": 1.27122,
30       "zoneSpeed": 60.20963,
31       "vertApprAngle": -7.024784,
32       "horzApprAngle": 0.646302,
33       "confidence": "High"
34     },

```

```

35     "nineP": {
36         "x0": {
37             "x": -1.60706,
38             "y": 50,
39             "z": 5.52438
40         },
41         "v0": {
42             "x": 2.34667,
43             "y": -96.2137,
44             "z": 1.95306
45         },
46         "a0": {
47             "x": -6.49054,
48             "y": 16.59358,
49             "z": -24.20551
50         },
51         "pfx": {
52             "x": -7.00796,
53             "y": 8.60378
54         },
55         "speedDrop": 6.41486,
56         "flight": {
57             "polyFit": {
58                 "pitchTrajectory": {
59                     "x": [
60                         56.37322,
61                         -97.30665,
62                         8.29679
63                     ],
64                     "y": [
65                         5.34323,
66                         3.54739,
67                         -12.10275
68                     ],
69                     "z": [
70                         -1.77571,
71                         2.77417,
72                         -3.24527
73                     ]
74                 }
75             }
76         },
77         "effectiveVelo": 63.3597
78     }

```

Pitch with optional 3D Spin data

```

1     {
2         "version": "1.0.0",
3         "playId": "2ef29cf5-bb63-4363-a401-1b0c5f45d9d7",
4         "trackId": "826cba44-a36e-4cbf-8fa7-377d59aed70e",
5         "trackStartTime": "2023-02-01T11:28:37.424288Z",
6         "kind": "Pitch",
7         "pitch": {
8             "release": {
9                 "relSpeed": 87.64325,
10                "spinRate": 2302.5894,
11                "extension": 5.58866,
12                "vertRelAngle": -0.667521,
13                "horzRelAngle": -1.687572,
14                "relHeight": 6.58002,
15                "relSide": 1.4329,
16                "confidence": "High",
17                "spinAxis3dTilt": "1:10",
18                "spinAxis3dActiveSpinRate": 34.2,
19                "spinAxis3dSpinEfficiency": 2.3,

```

```
20     "spinAxis3dTransverseAngle": 3.2,
21     "spinAxis3dLongitudinalAngle": 2.3,
22     "spinAxis3dVector": {
23         "x": 3.3,
24         "y": 6.7,
25         "z": 5.6
26     },
27     "spinAxis3dSeamOrientation": {
28         "x": 3.3,
29         "y": 3.4,
30         "z": 1.2
31     }
32 },
33 "movement": {
34     "horzBreak": 9.51953,
35     "vertBreak": -20.07958,
36     "inducedVertBreak": 17.05891,
37     "spinAxis": 211.12204,
38     "tilt": "1:00",
39     "confidence": "High"
40 },
41 "location": {
42     "zoneTime": 0.438615,
43     "plateLocHeight": 4.28312,
44     "plateLocSide": 0.64995,
45     "zoneSpeed": 79.29391,
46     "vertApprAngle": -4.466146,
47     "horzApprAngle": 0.010695,
48     "confidence": "High"
49 },
50 "nineP": {
51     "x0": {
52         "x": -1.29421,
53         "y": 50,
54         "z": 6.50992
55     },
56     "v0": {
57         "x": 3.32173,
58         "y": -127.06525,
59         "z": -2.10494
60     },
61     "a0": {
62         "x": -8.57379,
63         "y": 28.32985,
64         "z": -17.28319
65     },
66     "pfx": {
67         "x": -5.29418,
68         "y": 9.19485
69     },
70     "flight": {
71         "polyFit": {
72             "pitchTrajectory": {
73                 "x": [
74                     54.90563,
75                     -128.15433,
76                     14.16492
77                 ],
78                 "y": [
79                     6.57807,
80                     -1.44053,
81                     -8.64159
82                 ],
83                 "z": [
84                     -1.42824,
85                     3.65133,
86                     -4.28689
```

```

87     ]
88     }
89     }
90     },
91     "effectiveVelo": 85.93512
92 }
93 }

```

Hit

```

1  {
2  "version": "1.0.0",
3  "playId": "67adbc19-94ac-4e34-a7cd-6b3c02014488",
4  "trackId": "bcfafc04-0a7f-47d4-9097-edf16665a0f1",
5  "trackStartTime": "2022-06-24T00:38:59.5505524Z",
6  "kind": "Hit",
7  "hit": {
8    "launch": {
9      "exitSpeed": 58.01331,
10     "contactPosition": {
11       "x": 3.86051,
12       "y": 2.87963,
13       "z": 0.52791
14     },
15     "angle": -29.79936,
16     "direction": -51.505203,
17     "confidence": "Estimated"
18   },
19   "landingFlat": {
20     "distance": 7.77661,
21     "bearing": -25.987608,
22     "hangTime": 0.067687,
23     "confidence": "Estimated"
24   },
25   "lastTrackedDistance": 12.53461
26   "maxHeight": 2.87963,
27   "flight": {
28     "polyFit": {
29       "hitTrajectory": {
30         "x": [
31           3.85744,
32           46.23927
33         ],
34         "y": [
35           2.88245,
36           -42.54328
37         ],
38         "z": [
39           0.53176,
40           -58.14156
41         ]
42       }
43     }
44   }
45 }
46 }

```

CatcherThrow

```

1  {
2  "version": "1.0.0",
3  "playId": "329f060a-c7c8-4e25-ab04-e7788a8f70a2",
4  "trackId": "976aca06-edc1-4747-a83c-3483599b4cc3",
5  "trackStartTime": "2022-06-24T00:37:27.4377076Z",
6  "kind": "CatcherThrow",

```

```

7   "catcherThrow": {
8     "throw": {
9       "throwSpeed": 69.02929,
10      "throwPosition": {
11        "x": 2.39971,
12        "y": 5.60062,
13        "z": 0.56486
14      }
15    },
16    "location": {
17      "timeToBase": 1.421069,
18      "basePosition": {
19        "x": 127.28915,
20        "y": 6.79757,
21        "z": 5.38891
22      },
23      "confidence": "High"
24    },
25    "flight": {
26      "polyFit": {
27        "throwTrajectory": {
28          "x": [
29            2.61444,
30            97.26313,
31            -6.67348
32          ],
33          "y": [
34            5.71672,
35            20.32265,
36            -13.74447
37          ],
38          "z": [
39            0.46383,
40            0.4191,
41            2.12863
42          ]
43        }
44      }
45    }
46  }
47 }

```

Game Bat data

Assuming the session identifier is known the following request should be used in order to get access to battracking data from a stadium/backfield system.

```

1 | curl --location --request GET
   | 'https://dataapi.trackmanbaseball.com/api/v1/data/game/bats/<session_id
   | entifier>' \
2 | --header 'Authorization: Bearer <access_token>'

```

The response will be a session that includes a list of plays with battracking data, that was tracked. Depending on permissions, the response is provided in one of three different formats.

Metrics

```

1 | {
2 |   "version": "1.0.1",
3 |   "time": "2025-08-12T12:03:26.3961342Z",
4 |   "sessionId": "4eb31bac-6501-4234-94dc-12699e68c71b",
5 |   "gameReference": "20250508-PlainsmanPark-1",

```

```

6   "plays": [
7     {
8       "playId": "5a7c354c-480c-47ec-b003-d192801667ad",
9       "pitchUID": "26d2db30-2c64-11f0-b842-33bd7cb41991",
10      "time": "2025-05-08T23:28:29.7677312Z",
11      "batSpeed": 75.93387,
12      "horizontalAttackAngle": 2.06502,
13      "verticalAttackAngle": 0.86509
14    },
15    {
16      "playId": "46751ced-7e5d-4558-b112-5a0c734e1737",
17      "pitchUID": "ef71dfc0-2c62-11f0-b842-33bd7cb41991",
18      "time": "2025-05-08T23:19:47.3819136Z",
19      "batSpeed": 36.18877,
20      "horizontalAttackAngle": -9.04131,
21      "verticalAttackAngle": 18.57348
22    }
23  ]
24 }

```

Metrics with BatPath data

```

1   {
2     "version": "1.0.1",
3     "time": "2025-08-12T12:03:26.3961342Z",
4     "sessionId": "4eb31bac-6501-4234-94dc-12699e68c71b",
5     "gameReference": "20250508-PlainsmanPark-1",
6     "plays": [
7       {
8         "playId": "5a7c354c-480c-47ec-b003-d192801667ad",
9         "pitchUID": "26d2db30-2c64-11f0-b842-33bd7cb41991",
10        "time": "2025-05-08T23:28:29.7677312Z",
11        "batSpeed": 75.93387,
12        "horizontalAttackAngle": 2.06502,
13        "verticalAttackAngle": 0.86509,
14        "batPath": {
15          "preImpactSwing": {
16            "time": [
17              0.39387,
18              0.39487,
19              0.39587,
20              0.39687,
21              0.39787
22            ],
23            "barrel": {
24              "position": {
25                "x": [
26                  -2.11708,
27                  -2.11503,
28                  -2.11114,
29                  -2.10532,
30                  -2.09751
31                ],
32                "y": [
33                  4.17061,
34                  4.13394,
35                  4.09715,
36                  4.06027,
37                  4.02331
38                ],
39                "z": [
40                  -2.17269,
41                  -2.11979,
42                  -2.06608,
43                  -2.01159,
44                  -1.95637

```

```

45     ]
46     }
47   },
48   "upperGrip": {
49     "position": {
50       "x": [
51         -0.64928,
52         -0.61956,
53         -0.58968,
54         -0.55969,
55         -0.52962
56       ],
57       "y": [
58         3.87489,
59         3.8632,
60         3.85197,
61         3.8412,
62         3.83089
63       ],
64       "z": [
65         -1.44473,
66         -1.44003,
67         -1.4361,
68         -1.43293,
69         -1.43053
70       ]
71     }
72   }
73 }
74 }
75 }
76 ]
77 }

```

Metrics with BatPath data and Unsmoothed data

```

1  {
2    "version": "1.0.1",
3    "time": "2025-08-12T12:03:26.3961342Z",
4    "sessionId": "4eb31bac-6501-4234-94dc-12699e68c71b",
5    "gameReference": "20250508-PlainsmanPark-1",
6    "plays": [
7      {
8        "playId": "5a7c354c-480c-47ec-b003-d192801667ad",
9        "pitchUID": "26d2db30-2c64-11f0-b842-33bd7cb41991",
10       "time": "2025-05-08T23:28:29.7677312Z",
11       "batSpeed": 75.93387,
12       "horizontalAttackAngle": 2.06502,
13       "verticalAttackAngle": 0.86509,
14       "batPath": {
15         "preImpactSwing": {
16           "time": [
17             0.39387,
18             0.39487,
19             0.39587,
20             0.39687,
21             0.39787
22           ],
23         "barrel": {
24           "position": {
25             "x": [
26               -2.11708,
27               -2.11503,
28               -2.11114,
29               -2.10532,
30               -2.09751

```

```

31         ],
32         "y": [
33             4.17061,
34             4.13394,
35             4.09715,
36             4.06027,
37             4.02331
38         ],
39         "z": [
40             -2.17269,
41             -2.11979,
42             -2.06608,
43             -2.01159,
44             -1.95637
45         ]
46     }
47 },
48 "upperGrip": {
49     "position": {
50         "x": [
51             -0.64928,
52             -0.61956,
53             -0.58968,
54             -0.55969,
55             -0.52962
56         ],
57         "y": [
58             3.87489,
59             3.8632,
60             3.85197,
61             3.8412,
62             3.83089
63         ],
64         "z": [
65             -1.44473,
66             -1.44003,
67             -1.4361,
68             -1.43293,
69             -1.43053
70         ]
71     }
72 }
73 },
74 "batUnsmoothedXYZ": [
75     {
76         "camPair": [
77             "BatHome",
78             "BatLeft"
79         ],
80     },
81     "missingDetectionCount": 3,
82     "time": [
83         0.32679,
84         0.3295,
85         0.3322,
86         0.3349,
87         0.3376
88     ],
89     "tip": {
90         "position": {
91             "x": [
92                 -0.73724,
93                 -0.79268,
94                 -0.83554,
95                 -0.89304,
96                 -0.9648
97             ],

```

```

98         "y": [
99             5.79819,
100            5.7802,
101            5.75205,
102            5.73,
103            5.71697
104        ],
105        "z": [
106            -3.54064,
107            -3.55614,
108            -3.57276,
109            -3.58847,
110            -3.62128
111        ]
112    },
113    "triangulationResidual": [
114        0.0158,
115        0.01988,
116        0.01255,
117        0.00749,
118        0.01062
119    ]
120 },
121 "upperGrip": {
122     "position": {
123         "x": [
124             -1.50121,
125             -1.50146,
126             -1.30685,
127             -1.14077,
128             -1.15755
129         ],
130         "y": [
131             4.55371,
132             4.53367,
133             4.52481,
134             4.50385,
135             4.52646
136         ],
137         "z": [
138             -1.85948,
139             -1.85966,
140             -1.88106,
141             -1.90189,
142             -1.93904
143         ]
144     },
145     "triangulationResidual": [
146         0.00672,
147         0.00834,
148         0.10345,
149         0.21009,
150         0.16903
151     ]
152 }
153 }
154 }
155 }
156 ]
157 }

```

Game Hitter Biomechanics data

Hitter 3D Pose

Assuming the session identifier is known the following request should be used in order to get access to hitter 3D pose data from a stadium/backfield system. Because of the big amount of data returned by the endpoint, the response must be paginated, each page returning 10 plays.

```
1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/data/game/biomech/hitter3d
  pose/<session_identifier>?page=<page_number>' \
2 --header 'Authorization: Bearer <access_token>'
```

The response will be a session that includes a list of 10 plays with hitter 3D pose data.

```
1 {
2   "version": "1.0.0",
3   "sessionId": "e266160f-e6ff-40aa-9e56-a378cc56bb64",
4   "plays": [
5     {
6       "playId": "0219fb66-23b5-49af-9b98-bf114fcbb51a",
7       "timestamps": [
8         1763070371761059072,
9         1763070371763562496,
10        1763070371766066176,
11        ...
12      ],
13      "hitter": {
14        "headTip": [
15          [
16            -0.2884,
17            1.575971,
18            0.761085
19          ],
20          [
21            -0.291975,
22            1.580958,
23            0.758332
24          ],
25          ...
26        ],
27        "leftEar": [
28          [
29            -0.376344,
30            1.509876,
31            0.687675
32          ],
33          [
34            -0.375722,
35            1.508395,
36            0.688874
37          ],
38          ...
39        ],
40        "rightEar": [
41          [
42            -0.295216,
43            1.513614,
44            0.783991
45          ],
46          [
47            -0.294829,
48            1.513318,
```

```
49         0.782659
50     ],
51     ...
52 ],
53 "leftShoulder": [
54     [
55         -0.527225,
56         1.344542,
57         0.84893
58     ],
59     [
60         -0.523089,
61         1.338185,
62         0.852386
63     ],
64     ...
65 ],
66 "neck": [
67     [
68         -0.138099,
69         1.248738,
70         0.778125
71     ],
72     [
73         -0.142576,
74         1.25399,
75         0.773017
76     ],
77     ...
78 ],
79 "rightShoulder": [
80     [
81         -0.753318,
82         1.249798,
83         0.830613
84     ],
85     [
86         -0.753981,
87         1.250719,
88         0.829657
89     ],
90     ...
91 ],
92 "leftElbow": [
93     [
94         -0.28958,
95         1.165498,
96         0.635251
97     ],
98     [
99         -0.291993,
100        1.163832,
101        0.633693
102     ],
103     ...
104 ],
105 "rightElbow": [
106     [
107         -0.609824,
108         1.326666,
109         0.711244
110     ],
111     [
112         -0.613606,
113         1.331709,
114         0.707979
115     ],
```

```
116     ...
117 ],
118 "leftWrist": [
119     [
120         -0.506081,
121         1.309182,
122         0.60067
123     ],
124     [
125         -0.507114,
126         1.307237,
127         0.599473
128     ],
129     ...
130 ],
131 "rightWrist": [
132     [
133         -0.420331,
134         0.808438,
135         0.90639
136     ],
137     [
138         -0.420428,
139         0.807453,
140         0.906222
141     ],
142     ...
143 ],
144 "centerTorso": [
145     [
146         -0.239251,
147         0.812038,
148         0.897223
149     ],
150     [
151         -0.240128,
152         0.812435,
153         0.896904
154     ],
155     ...
156 ],
157 "leftHip": [
158     [
159         -0.562018,
160         0.493944,
161         0.745972
162     ],
163     [
164         -0.562152,
165         0.494349,
166         0.746658
167     ],
168     ...
169 ],
170 "rightHip": [
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172         -0.060893,
173         0.52132,
174         0.73776
175     ],
176     [
177         -0.061364,
178         0.5219,
179         0.733823
180     ],
181     ...
182 ],
```

```
183 "leftKnee": [  
184   [  
185     -0.580891,  
186     0.059979,  
187     0.927201  
188   ],  
189   [  
190     -0.580897,  
191     0.059953,  
192     0.926839  
193   ],  
194   ...  
195 ],  
196 "rightKnee": [  
197   [  
198     0.106518,  
199     0.19939,  
200     0.824251  
201   ],  
202   [  
203     0.106,  
204     0.199818,  
205     0.823771  
206   ],  
207   ...  
208 ],  
209 "leftAnkle": [  
210   [  
211     -0.658042,  
212     0.070898,  
213     0.730565  
214   ],  
215   [  
216     -0.657827,  
217     0.071396,  
218     0.729712  
219   ],  
220   ...  
221 ],  
222 "rightAnkle": [  
223   [  
224     0.149843,  
225     0.063308,  
226     0.71369  
227   ],  
228   [  
229     0.150046,  
230     0.063787,  
231     0.714188  
232   ],  
233   ...  
234 ],  
235 "leftHeel": [  
236   [  
237     -0.618589,  
238     0.066089,  
239     0.978787  
240   ],  
241   [  
242     -0.618605,  
243     0.065778,  
244     0.979063  
245   ],  
246   ...  
247 ],  
248 "rightHeel": [  
249   [  
250     -0.618589,  
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252     0.978787  
253   ],  
254   [  
255     -0.618605,  
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257     0.979063  
258   ],  
259   ...  
260 ],  
261 "leftFoot": [  
262   [  
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266   ],  
267   [  
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269     0.065778,  
270     0.979063  
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272   ...  
273 ],  
274 "rightFoot": [  
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278     0.978787  
279   ],  
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283     0.979063  
284   ],  
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286 ],  
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288   [  
289     -0.618589,  
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295     0.065778,  
296     0.979063  
297   ],  
298   ...  
299 ],  
300 "rightToe": [  
301   [  
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309     0.979063  
310   ],  
311   ...  
312 ],  
313 "leftInstep": [  
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318   ],  
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322     0.979063  
323   ],  
324   ...  
325 ],  
326 "rightInstep": [  
327   [  
328     -0.618589,  
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336   ],  
337   ...  
338 ],  
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375   ],  
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377 ],  
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426     0.979063  
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451     0.065778,  
452     0.979063  
453   ],  
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455 ],  
456 "rightToe": [  
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465     0.979063  
466   ],  
467   ...  
468 ],  
469 "leftInstep": [  
470   [  
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479   ],  
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481 ],  
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490     0.065778,  
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494 ],  
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499     0.978787  
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505   ],  
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507 ],  
508 "rightBall": [  
509   [  
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512     0.978787  
513   ],  
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516     0.065778,  
517     0.979063  
518   ],  
519   ...  
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521 "leftMidfoot": [  
522   [  
523     -0.618589,  
524     0.066089,  
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526   ],  
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530     0.979063  
531   ],  
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534 "rightMidfoot": [  
535   [  
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538     0.978787  
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543     0.979063  
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546 ],  
547 "leftForefoot": [  
548   [  
549     -0.618589,  
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557   ],  
558   ...  
559 ],  
560 "rightForefoot": [  
561   [  
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564     0.978787  
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567     -0.618605,  
568     0.065778,  
569     0.979063  
570   ],  
571   ...  
572 ],  
573 "leftHeel": [  
574   [  
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576     0.066089,  
577     0.978787  
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580     -0.618605,  
581     0.065778,  
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588     -0.618589,  
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590     0.978787  
591   ],  
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593     -0.618605,  
594     0.065778,  
595     0.979063  
596   ],  
597   ...  
598 ],  
599 "leftToe": [  
600   [  
601     -0.618589,  
602     0.066089,  
603     0.978787  
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606     -0.618605,  
607     0.065778,  
608     0.979063  
609   ],  
610   ...  
611 ],  
612 "rightToe": [  
613   [  
614     -0.618589,  
615     0.066089,  
616     0.978787  
617   ],  
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621     0.979063  
622   ],  
623   ...  
624 ],  
625 "leftInstep": [  
626   [  
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629     0.978787  
630   ],  
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632     -0.618605,  
633     0.065778,  
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635   ],  
636   ...  
637 ],  
638 "rightInstep": [  
639   [  
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642     0.978787  
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648   ],  
649   ...  
650 ],  
651 "leftBall": [  
652   [  
653     -0.618589,  
654     0.066089,  
655     0.978787  
656   ],  
657   [  
658     -0.618605,  
659     0.065778,  
660     0.979063  
661   ],  
662   ...  
663 ],  
664 "rightBall": [  
665   [  
666     -0.618589,  
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668     0.978787  
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670   [  
671     -0.618605,  
672     0.065778,  
673     0.979063  
674   ],  
675   ...  
676 ],  
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678   [  
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681     0.978787  
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683   [  
684     -0.618605,  
685     0.065778,  
686     0.979063  
687   ],  
688   ...  
689 ],  
690 "rightMidfoot": [  
691   [  
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695   ],  
696   [  
697     -0.618605,  
698     0.065778,  
699     0.979063  
700   ],  
701   ...  
702 ],  
703 "leftForefoot": [  
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708   ],  
709   [  
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711     0.065778,  
712     0.979063  
713   ],  
714   ...  
715 ],  
716 "rightForefoot": [  
717   [  
718     -0.618589,  
719     0.066089,  
720     0.978787  
721   ],  
722   [  
723     -0.618605,  
724     0.065778,  
725     0.979063  
726   ],  
727   ...  
728 ],  
729 "leftHeel": [  
730   [  
731     -0.618589,  
732     0.066089,  
733     0.978787  
734   ],  
735   [  
736     -0.618605,  
737     0.065778,  
738     0.979063  
739   ],  
740   ...  
741 ],  
742 "rightHeel": [  
743   [  
744     -0.618589,  
745     0.066089,  
746     0.978787  
747   ],  
748   [  
749     -0.618605,  
750     0.065778,  
751     0.979063  
752   ],  
753   ...  
754 ],  
755 "leftToe": [  
756   [  
757     -0.618589,  
758     0.066089,  
759     0.978787  
760   ],  
761   [  
762     -0.618605,  
763     0.065778,  
764     0.979063  
765   ],  
766   ...  
767 ],  
768 "rightToe": [  
769   [  
770     -0.618589,  
771     0.066089,  
772     0.978787  
773   ],  
774   [  
775     -0.618605,  
776     0.065778,  
777     0.979063  
778   ],  
779   ...  
780 ],  
781 "leftInstep": [  
782   [  
783     -0.618589,  
784     0.066089,  
785     0.978787  
786   ],  
787   [  
788     -0.618605,  
789     0.065778,  
790     0.979063  
791   ],  
792   ...  
793 ],  
794 "rightInstep": [  
795   [  
796     -0.618589,  
797     0.066089,  
798     0.978787  
799   ],  
800   [  
801     -0.618605,  
802     0.065778,  
803     0.979063  
804   ],  
805   ...  
806 ],  
807 "leftBall": [  
808   [  
809     -0.618589,  
810     0.066089,  
811     0.978787  
812   ],  
813   [  
814     -0.618605,  
815     0.065778,  
816     0.979063  
817   ],  
818   ...  
819 ],  
820 "rightBall": [  
821   [  
822     -0.618589,  
823     0.066089,  
824     0.978787  
825   ],  
826   [  
827     -0.618605,  
828     0.065778,  
829     0.979063  
830   ],  
831   ...  
832 ],  
833 "leftMidfoot": [  
834   [  
835     -0.618589,  
836     0.066089,  
837     0.978787  
838   ],  
839   [  
840     -0.618605,  
841     0.065778,  
842     0.979063  
843   ],  
844   ...  
845 ],  
846 "rightMidfoot": [  
847   [  
848     -0.618589,  
849     0.066089,  
850     0.978787  
851   ],  
852   [  
853     -0.618605,  
854     0.065778,  
855     0.979063  
856   ],  
857   ...  
858 ],  
859 "leftForefoot": [  
860   [  
861     -0.618589,  
862     0.066089,  
863     0.978787  
864   ],  
865   [  
866     -0.618605,  
867     0.065778,  
868     0.979063  
869   ],  
870   ...  
871 ],  
872 "rightForefoot": [  
873   [  
874     -0.618589,  
875     0.066089,  
876     0.978787  
877   ],  
878   [  
879     -0.618605,  
880     0.065778,  
881     0.979063  
882   ],  
883   ...  
884 ],  
885 "leftHeel": [  
886   [  
887     -0.618589,  
888     0.066089,  
889     0.978787  
890   ],  
891   [  
892     -0.618605,  
893     0.065778,  
894     0.979063  
895   ],  
896   ...  
897 ],  
898 "rightHeel": [  
899   [  
900     -0.618589,  
901     0.066089,  
902     0.978787  
903   ],  
904   [  
905     -0.618605,  
906     0.065778,  
907     0.979063  
908   ],  
909   ...  
910 ],  
911 "leftToe": [  
912   [  
913     -0.618589,  
914     0.066089,  
915     0.978787  
916   ],  
917   [  
918     -0.618605,  
919     0.065778,  
920     0.979063  
921   ],  
922   ...  
923 ],  
924 "rightToe": [  
925   [  
926     -0.618589,  
927     0.066089,  
928     0.978787  
929   ],  
930   [  
931     -0.618605,  
932     0.065778,  
933     0.979063  
934   ],  
935   ...  
936 ],  
937 "leftInstep": [  
938   [  
939     -0.618589,  
940     0.066089,  
941     0.978787  
942   ],  
943   [  
944     -0.618605,  
945     0.065778,  
946     0.979063  
947   ],  
948   ...  
949 ],  
950 "rightInstep": [  
951   [  
952     -0.618589,  
953     0.066089,  
954     0.978787  
955   ],  
956   [  
957     -0.618605,  
958     0.065778,  
959     0.979063  
960   ],  
961   ...  
962 ],  
963 "leftBall": [  
964   [  
965     -0.618589,  
966     0.066089,  
967     0.978787  
968   ],  
969   [  
970     -0.618605,  
971     0.065778,  
972     0.979063  
973   ],  
974   ...  
975 ],  
976 "rightBall": [  
977   [  
978     -0.618589,  
979     0.066089,  
980     0.978787  
981   ],  
982   [  
983     -0.618605,  
984     0.065778,  
985     0.979063  
986   ],  
987   ...  
988 ],  
989 "leftMidfoot": [  
990   [  
991     -0.618589,  
992     0.066089,  
993     0.978787  
994   ],  
995   [  
996     -0.618605,  
997     0.065778,  
998     0.979063  
999   ],  
1000   ...  
1001 ],  
1002 "rightMidfoot": [  
1003   [  
1004     -0.618589,  
1005     0.066089,  
1006     0.978787  
1007   ],  
1008   [  
1009     -0.618605,  
1010     0.065778,  
1011     0.979063  
1012   ],  
1013   ...  
1014 ],  
1015 "leftForefoot": [  
1016   [  
1017     -0.618589,  
1018     0.066089,  
1019     0.978787  
1020   ],  
1021   [  
1022     -0.618605,  
1023     0.065778,  
1024     0.979063  
1025   ],  
1026   ...  
1027 ],  
1028 "rightForefoot": [  
1029   [  
1030     -0.618589,  
1031     0.066089,  
1032     0.978787  
1033   ],  
1034   [  
1035     -0.618605,  
1036     0.065778,  
1037     0.979063  
1038   ],  
1039   ...  
1040 ],  
1041 "leftHeel": [  
1042   [  
1043     -0.618589,  
1044     0.066089,  
1045     0.978787  
1046   ],  
1047   [  
1048     -0.618605,  
1049     0.065778,  
1050     0.979063  
1051   ],  
1052   ...  
1053 ],  
1054 "rightHeel": [  
1055   [  
1056     -0.618589,  
1057     0.066089,  
1058     0.978787  
1059   ],  
1060   [  
1061     -0.618605,  
1062     0.065778,  
1063     0.979063  
1064   ],  
1065   ...  
1066 ],  
1067 "leftToe": [  
1068   [  
1069     -0.618589,  
1070     0.066089,  
1071     0.978787  
1072   ],  
1073   [  
1074     -0.618605,  
1075     0.065778,  
1076     0.979063  
1077   ],  
1078   ...  
1079 ],  
1080 "rightToe": [  
1081   [  
1082     -0.618589,  
1083     0.066089,  
1084     0.978787  
1085   ],  
1086   [  
1087     -0.618605,  
1088     0.065778,  
1089     0.979063  
1090   ],  
1091   ...  
1092 ],  
1093 "leftInstep": [  
1094   [  
1095     -0.618589,  
1096     0.066089,  
1097     0.978787  
1098   ],  
1099   [  
1100     -0.618605,  
1101     0.065778,  
1102     0.979063  
1103   ],  
1104   ...  
1105 ],  
1106 "rightInstep": [  
1107   [  
1108     -0.618589,  
1109     0.066089,  
1110     0.978787  
1111   ],  
1112   [  
1113     -0.618605,  
1114     0.065778,  
1115     0.979063  
1116   ],  
1117   ...  
1118 ],  
1119 "leftBall": [  
1120   [  
1121     -0.618589,  
1122     0.066089,  
1123     0.978787  
1124   ],  
1125   [  
1126     -0.618605,  
1127     0.065778,  
1128     0.979063  
1129   ],  
1130   ...  
1131 ],  
1132 "rightBall": [  
1133   [  
1134     -0.618589,  
1135     0.066089,  
1136     0.978787  
1137   ],  
1138   [  
1139     -0.618605,  
1140     0.065778,  
1141     0.979063  
1142   ],  
1143   ...  
1144 ],  
1145 "leftMidfoot": [  
1146   [  
1147     -0.618589,  
1148     0.066089,  
1149     0.978787  
1150   ],  
1151   [  
1152     -0.618605,  
1153     0.065778,  
1154     0.979063  
1155   ],  
1156   ...  
1157 ],  
1158 "rightMidfoot": [  
1159   [  
1160     -0.618589,  
1161     0.066089,  
1162     0.978787  
1163   ],  
1164   [  
1165     -0.618605,  
1166     0.065778,  
1167     0.979063  
1168   ],  
1169   ...  
1170 ],  
1171 "leftForefoot": [  
1172   [  
1173     -0.618589,  
1174     0.066089,  
1175     0.978787  
1176   ],  
1177   [  
1178     -0.618605,  
1179     0.065778,  
1180     0.979063  
1181   ],  
1182   ...  
1183 ],  
1184 "rightForefoot": [  
1185   [  
1186     -0.618589,  
1187     0.066089,  
1188     0.978787  
1189   ],  
1190   [  
1191     -0.618605,  
1192     0.065778,  
1193     0.979063  
1194   ],  
1195   ...  
1196 ],  
1197 "leftHeel": [  
1198   [  
1199     -0.618589,  
1200     0.066089,  
1201     0.978787  
1202   ],  
1203   [  
1204     -0.618605,  
1205     0.065778,  
1206     0.979063  
1207   ],  
1208   ...  
1209 ],  
1210 "rightHeel": [  
1211   [  
1212     -0.618589,  
1213     0.066089,  
1214     0.978787  
1215   ],  
1216   [  
1217     -0.618605,  
1218     0.065778,  
1219     0.979063  
1220   ],  
1221   ...  
1222 ],  
1223 "leftToe": [  
1224   [  
1225     -0.618589,  
1226     0.066089,  
1227     0.978787  
1228   ],  
1229   [  
1230     -0.618605,  
1231     0.065778,  
1232     0.979063  
1233   ],  
1234   ...  
1235 ],
```

```

250         0.167017,
251         0.061274,
252         0.918544
253     ],
254     [
255         0.166979,
256         0.062643,
257         0.918422
258     ],
259     ...
260 ],
261 "leftToesiesTip": [
262     [
263         -0.3484,
264         1.369082,
265         0.785887
266     ],
267     [
268         -0.348708,
269         1.368759,
270         0.785298
271     ],
272     ...
273 ],
274 "rightToesiesTip": [
275     [
276         -0.351158,
277         1.161655,
278         0.843035
279     ],
280     [
281         -0.351811,
282         1.161236,
283         0.842272
284     ],
285     ...
286 ]
287 },
288 "bat": {
289     "tip": [
290         [
291             -0.295216,
292             1.513614,
293             0.783991
294         ],
295         [
296             -0.294829,
297             1.513318,
298             0.782659
299         ],
300         ...
301     ],
302     "leadHandTop": [
303         [
304             -0.376344,
305             1.509876,
306             0.687675
307         ],
308         [
309             -0.375722,
310             1.508395,
311             0.688874
312         ],
313         ...
314     ],
315     "leadHandBottom": [
316         [

```

```

317         -0.2884,
318         1.575971,
319         0.761085
320     ],
321     [
322         -0.291975,
323         1.580958,
324         0.758332
325     ],
326     ...
327 ]
328 }
329 },
330 {
331     "playId": "127ce4a0-d44c-4b5c-8526-d5b56c2ca3ec",
332     "timestamps": [
333         1763070371761059072,
334         1763070371763562496,
335         1763070371766066176
336     ],
337     ...
338 },
339 },
340 ...
341 ]
342 }
343

```

Hitler Metrics

Assuming the session identifier is known the following request should be used in order to get access to hitter metrics data from a stadium/backfield system. Because of the big amount of data returned by the endpoint, the response must be paginated, each page returning 10 plays.

```

1 | curl --location --request GET
  | 'https://dataapi.trackmanbaseball.com/api/v1/data/game/biomech/hitterme
  | trics/<session_idenfier>?page=<page_number>' \
2 | --header 'Authorization: Bearer <access_token>'

```

The response will be a session that includes a list of 10 plays with hitter metrics data.

```

1 | {
2 |   "version": "1.0.0",
3 |   "sessionId": "e266160f-e6ff-40aa-9e56-a378cc56bb64",
4 |   "plays": [
5 |     {
6 |       "playId": "0219fb66-23b5-49af-9b98-bf114fcbb51a",
7 |       "handedness": "1",
8 |       "stance": {
9 |         "width": 2.32585,
10 |        "direction": -8.517656,
11 |        "torsoAngle": -16.173252,
12 |        "pelvisAngle": -3.205047
13 |      },
14 |       "swingPlane": {
15 |         "normal": [
16 |           2.18494,
17 |           -2.05772,
18 |           1.32505
19 |         ],
20 |         "centroid": [
21 |           -1.027,
22 |           5.50622,

```

```

23         3.36369
24     ],
25     "angleToGround": 51.156643,
26     "orientation": -58.765469
27 },
28 "numSamples": 584,
29 "timestamps": [
30     1763070371761059072,
31     1763070371763562496,
32     1763070371766066176,
33     ...
34 ],
35 "swingEvents": {
36     "frontFootPlant": 274,
37     "batInStrikeZone": 414,
38     "maxBatSpeed": 395,
39     "batHorizEnd": 395
40 },
41 "jointTranslation": {
42     "head": [
43         [
44             0.0,
45             -0.0016,
46             -0.00313
47         ],
48         [
49             -0.01476,
50             -0.01572,
51             -0.01688
52         ],
53         ...
54     ],
55     "torso": [
56         [
57             -0.00457,
58             -0.0059,
59             -0.00709
60         ],
61         [
62             -0.01828,
63             -0.01992,
64             -0.02183
65         ],
66         ...
67     ],
68     "leadArm": [
69         [
70             -0.00814,
71             -0.00905,
72             -0.00982
73         ],
74         [
75             -0.02399,
76             -0.02639,
77             -0.02905
78         ],
79         ...
80     ],
81     "pelvis": [
82         [
83             -0.01045,
84             -0.01098,
85             -0.01141
86         ],
87         [
88             -0.03192,
89             -0.035,

```

```

90         -0.03825
91     ],
92     ...
93 ],
94     "batTip": [
95     [
96         -0.01179,
97         -0.01214,
98         -0.01249
99     ],
100    [
101        -0.04165,
102        -0.04518,
103        -0.04879
104    ],
105    ...
106 ],
107     "bottomHand": [
108     [
109         -0.0129,
110         -0.01339,
111         -0.014
112     ],
113     [
114         -0.05245,
115         -0.05615,
116         -0.05985
117     ],
118     ...
119 ]
120 },
121     "segmentRotation": {
122         "head": [
123         [
124             -2.705036,
125             9.64391,
126             2.98209
127         ],
128         [
129             -2.714339,
130             10.118881,
131             3.122782
132         ],
133         ...
134     ],
135     "torso": [
136     [
137         -2.687563,
138         9.729862,
139         3.008039
140     ],
141     [
142         -2.758095,
143         10.227939,
144         3.152947
145     ],
146     ...
147 ],
148     "leadArm": [
149     [
150         -2.676707,
151         9.820029,
152         3.035211
153     ],
154     [
155         -2.819818,
156         10.341148,

```

```

157         3.182787
158     ],
159     ...
160 ],
161 "pelvis": [
162     [
163         -2.675738,
164         9.91481,
165         3.063541
166     ],
167     [
168         -2.900103,
169         10.457798,
170         3.211618
171     ],
172     ...
173 ],
174 "batInPlane": [
175     [
176         -2.687468,
177         10.014431,
178         3.092836
179     ],
180     [
181         -2.99878,
182         10.576959,
183         3.238679
184     ],
185     ...
186 ]
187 },
188 "segmentAngularVelocities": {
189     "head": [
190         [
191             -21.750961,
192             49.864002,
193             14.142373
194         ],
195         [
196             -27.291931,
197             50.208,
198             13.115901
199         ],
200         ...
201     ],
202     "torso": [
203         [
204             -22.383036,
205             50.090263,
206             14.11336
207         ],
208         [
209             -29.404987,
210             49.667015,
211             12.392407
212         ],
213         ...
214     ],
215     "leadArm": [
216         [
217             -23.772045,
218             50.408489,
219             13.966908
220         ],
221         [
222             -31.729271,
223             48.820648,

```

```

224         11.461206
225     ],
226     ...
227 ],
228     "pelvis": [
229         [
230             -25.410069,
231             50.451736,
232             13.637908
233         ],
234         [
235             -34.237835,
236             47.663361,
237             10.318604
238         ],
239         ...
240     ]
241 }
242 },
243 {
244     "playId": "127ce4a0-d44c-4b5c-8526-d5b56c2ca3ec",
245     "handedness": "r",
246     "stance": {
247         "width": 2.32585,
248         "direction": -8.517656,
249         "torsoAngle": -16.173252,
250         "pelvisAngle": -3.205047
251     },
252     ...
253 }
254 ...
255 ]
256 }

```

Game Plays

Assuming the session identifier is known the following request should be used in order to get access to Plays tagged from a stadium/backfield.

```

1 | curl --location --request GET
  | 'https://dataapi.trackmanbaseball.com/api/v1/data/game/plays/<session_i
  | dentifier>' \
2 | --header 'Authorization: Bearer <access_token>'

```

The response will be an array of Play objects that were tracked during a session:

```

1 | [
2 |   {
3 |     "version": "1.0.0",
4 |     "pitchUID": " 9a5ad943-0ce7-4ace-a44d-45110282a9f6 ",
5 |     "playID": " 12c4c3f5-9984-47a0-8e7c-d8724d04e463 ",
6 |     "localDateTime": "06/23/2022 01:44:24",
7 |     "utcDateTime": "06/23/2022 01:44:24",
8 |     "taggerBehavior": {
9 |       "pitchNo": 23,
10 |      "pAofinning": 14,
11 |      "pitchofPA": 1
12 |     },
13 |     "pitcher": {
14 |       "name": "Test, Test",
15 |       "id": "555555",
16 |       "throws": "Right",
17 |       "team": "QRT_AAX"

```

```

18   },
19   "batter": {
20     "name": "Test2, Test2",
21     "id": "444444",
22     "side": "Right",
23     "team": "TTZ_BAT"
24   },
25   "catcher": {
26     "name": "Test3, Test3",
27     "id": "544333",
28     "throws": "Left",
29     "team": " QRT_AAX "
30   },
31   "gameState": {
32     "inning": 1,
33     "topBottom": "Bottom",
34     "outs": 1,
35     "balls": 0,
36     "strikes": 0
37   },
38   "pitchTag": {
39     "taggedPitchType": "Sinker",
40     "pitchCall": "BallCalled",
41     "autoPitchType": "Changeup"
42   },
43   "hitTag": {
44     "taggedHitType": "Undefined"
45   },
46   "korBB": "Undefined",
47   "playResult": {
48     "playResult": "Undefined",
49     "outsOnPlay": 0,
50     "runsScored": 0
51   },
52   "notes": ""
53 }
54 ]

```

Practice Ball Data

Assuming the session identifier is known the following request should be used in order to get access to ball data during a practice session.

```

1 | curl --location --request GET
  | 'https://dataapi.trackmanbaseball.com/api/v1/data/practice/balls/<session_
  | identifier>' \
2 | -- 'ader 'Authorization: Bearer <access_token>'

```

The response will be an array of Ball objects that will be of the types Hit or Pitch:

Hit

```

1 | {
2 |   "version": "1.0.0",
3 |   "trackType": "Hit",
4 |   "hit": {
5 |     "hitUID": "3981afefba1b43f280416e6412dc3001",
6 |     "launch": {
7 |       "exitSpeed": 45.0007,
8 |       "angle": 49.0816,
9 |       "direction": 30.903046,
10 |      "spinRate": 4134.891,
11 |      "contactPosition": {

```

```

12     "x": 0.77241,
13     "y": 2.88684,
14     "z": 0.67732
15   }
16 },
17 "trajectory": {},
18 "lastTrackedDistance": 10.13543,
19 "landing": {
20   "hangTime": 3.2149227,
21   "distance": 113.46929,
22   "bearing": 34.160698
23 }
24 }
25 }

```

Pitch

```

1  {
2    "version": "1.0.0",
3    "trackType": "Pitch",
4    "pitch": {
5      "pitchUID": "f4b91ef6-9622-45fe-ae92-3fb8ea32d95f",
6      "release": {
7        "relSpeed": 90.45952
8        "vertRelAngle": 1.1750124,
9        "horzRelAngle": 1.0159225,
10       "spinRate": 1989.2959,
11       "spinAxis": 72.78744,
12       "tilt": "8:30",
13       "relHeight": 4.99262,
14       "relSide": 1.83446,
15       "extension": 6.45952
16       "spinAxis3dTilt": "2:30",
17       "spinAxis3dTransverseAngle": 233.11022,
18       "spinAxis3dLongitudinalAngle": 15.892031,
19       "spinAxis3dActiveSpinRate": 1249.8821,
20       "spinAxis3dSpinEfficiency": 0.9277325,
21       "spinAxis3dVector": {
22         "x": -0.36022058,
23         "y": -0.9413322,
24         "z": -0.23355447
25       }
26     },
27     "trajectory": {
28       "vertBreak": -60.423,
29       "inducedVertBreak": -2.45709,
30       "horzBreak": -7.76583
31     },
32     "location": {
33       "plateLocHeight": 1.03686,
34       "plateLocSide": 2.12047,
35       "zoneSpeed": 63.23535,
36       "vertApprAngle": -10.251426,
37       "horzApprAngle": -0.4668674,
38       "zoneTime": 0.54797125
39     },
40     "pfxData": {
41       "pfxX": 4.59049,
42       "pfxZ": -1.71027,
43       "a0": {
44         "x": 4.61916,
45         "y": 17.40995,
46         "z": -33.895
47       },
48       "v0": {
49         "x": -1.60178,

```

```

50         "y": -100.10154,
51         "z": 0.70491
52     },
53     "x0": {
54         "x": -1.90261,
55         "y": 50,
56         "z": 5.04836
57     }
58 },
59     "effVelocity": 68.78544
60 }
61 }

```

Practice Play Data

Assuming the session identifier is known the following request should be used in order to get access to Plays tagged during a practice session.

```

1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/data/practice/plays/<session_id>' \
2 --header 'Authorization: Bearer <access_token>'

```

The response will be an array of Play objects that were tracked during a session:

```

1 {
2   "version": "1.0.0",
3   "playID": "a744659f-46fd-4703-aa8c-f635e54d3221",
4   "calibrationId": "74740447-e745-4100-86b0-2e7376f56623",
5   "date": "2023-02-06",
6   "time": "00:56:00.92",
7   "pitcher": {
8     "pitcher": "Cline, Cyrus",
9     "pitcherId": "401485",
10    "pitcherThrows": "Right"
11  },
12  "batter": {},
13  "pitchTag": {
14    "taggedPitchType": "Fastball"
15  },
16  "taggerBehavior": {
17    "pitchNo": 66,
18    "pitchSession": "Live"
19  }
20 }

```

Query for access to Media

Images

SasToken approach

This method of accessing videos will be deprecated in the future (no set date yet). Please refer to the new way of getting access to images found in the section below called ImageURL approach

Assuming the session identifier is known, the following request should be used in order to get access to composite images and player positioning images from a stadium/backfield system.

```
1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/media/game/imagetokens/<session_idenfifier>' \
2 --header 'Authorization: Bearer <access_token>
```

The response will be a list of SAS tokens needed to access the images sitting with Microsoft Azure. See slides on “Downloading images or videos” for examples on how to interact with Microsoft Azure using the below “tokens”, “entityPath” and “endpoint”.

```
1 [
2   {
3     "version": "1.0.0",
4     "type": "CompositeImages",
5     "token": "?sv=2018-03-
28&sr=c&sig=VBd9CU1jTKASsHiipRe4wNSo%2FIbQU1Jqe6MN4RcTv%2BM%3D&se=2021
-04-14T12%3A39%3A49Z&sp=rl",
6     "entityPath": "tmbbdataapicpimagesprod",
7     "endpoint": "2a2e739b-1955-41b7-81de-bd292b035e54",
8     "expiresAtUtc": "2021-04-14T12:39:49.343842Z"
9   },
10  {
11   "version": "1.0.0",
12   "type": "PlayerPositioningImages",
13   "token": "?sv=2018-03-
28&sr=c&sig=7jUcTZZaKt0u59DMfG2edVVxoG1g4UmI7%2FjFj9EQvWw%3D&se=2021-
04-14T12%3A39%3A49Z&sp=rl",
14   "entityPath": "tmbbdataapippimagesprod",
15   "endpoint": "2a2e739b-1955-41b7-81de-bd292b035e54",
16   "expiresAtUtc": "2021-04-14T12:39:49.7341683Z"
17  }
18 ]
```

ImageURL approach

The following request should be used to fetch videos from a game:

```
1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/media/game/session/imageur
ls/all/<session_idenfifier>' \
2 --header 'Authorization: Bearer <access_token>
3
```

The response will be a list of plays. Each play contains a list of MediaItems which have a type and a direct URL to download the video.

```
1 {
2   "version": "1.1.0",
3   "plays": [
4     {
5       "playId": "048edbbb-0c0b-4fce-930c-df92a68e61d5",
6       "mediaItems": [
7         {
8           "type": "CompositeImages",
```

```
9      "url":
    "https://tmbbdataapicpimagesprod.blob.core.windows.net/50346283-aeb4-
    471f-83da-82684dcd9c18/Plays/048edbbb-0c0b-4fce-930c-
    df92a68e61d5/PitchCompositeImage/Imperial/048edbbb-0c0b-4fce-930c-
    df92a68e61d5.jpg?sv=2024-11-04&se=2026-06-
    11T09%3A56%3A26Z&sr=b&sp=r&sig=jyNmRQKXlnVqkRR40uPlkQr0c8%2BcE5r1twLb%
    2BkGvWgQ%3D"
10    },
11    {
12      "type": "CompositeImages",
13      "url":
    "https://tmbbdataapicpimagesprod.blob.core.windows.net/50346283-aeb4-
    471f-83da-82684dcd9c18/Plays/048edbbb-0c0b-4fce-930c-
    df92a68e61d5/PitchCompositeImage/Metric/048edbbb-0c0b-4fce-930c-
    df92a68e61d5.jpg?sv=2024-11-04&se=2026-06-
    11T09%3A56%3A26Z&sr=b&sp=r&sig=TLnqRuxpfqW7167pIuKo5wbKaN4Dw69HmNk71%2
    Fs0sU4%3D"
14    },
15    {
16      "type": "PlayerPositioningImages",
17      "url":
    "https://tmbbdataapippimagesprod.blob.core.windows.net/50346283-aeb4-
    471f-83da-82684dcd9c18/Plays/048edbbb-0c0b-4fce-930c-
    df92a68e61d5/PitchReleasePlayerPositioningImage/Imperial/048edbbb-
    0c0b-4fce-930c-df92a68e61d5_PitchRelease_Imperial.jpg?sv=2024-11-
    04&se=2026-06-
    11T09%3A56%3A26Z&sr=b&sp=r&sig=B8b7oaTsXXcmYTWI5xJH0zkM4%2FvF611lwCfE9
    rx%2F68k%3D"
18    },
19    {
20      "type": "PlayerPositioningImages",
21      "url":
    "https://tmbbdataapippimagesprod.blob.core.windows.net/50346283-aeb4-
    471f-83da-82684dcd9c18/Plays/048edbbb-0c0b-4fce-930c-
    df92a68e61d5/PitchReleasePlayerPositioningImage/Metric/048edbbb-0c0b-
    4fce-930c-df92a68e61d5_PitchRelease_Metric.jpg?sv=2024-11-04&se=2026-
    06-
    11T09%3A56%3A26Z&sr=b&sp=r&sig=eNaiKoogImbt70%2BRcsQrYZYCnD021Ty9zj100
    z%2FNnJM%3D"
22    }
23  ]
24  },
25  {
26    "playId": "0541219d-e462-41ce-9cf2-3651a1148f92",
27    "mediaItems": [
28      {
29        "type": "CompositeImages",
30        "url":
    "https://tmbbdataapicpimagesprod.blob.core.windows.net/50346283-aeb4-
    471f-83da-82684dcd9c18/Plays/0541219d-e462-41ce-9cf2-
    3651a1148f92/PitchCompositeImage/Imperial/0541219d-e462-41ce-9cf2-
    3651a1148f92.jpg?sv=2024-11-04&se=2026-06-
    11T09%3A56%3A26Z&sr=b&sp=r&sig=q3J3c50mhEp9D3mAabtbzNa8kzoRPwEm0mnmQzK
    E63U%3D"
31    },
32    {
33      "type": "CompositeImages",
34      "url":
    "https://tmbbdataapicpimagesprod.blob.core.windows.net/50346283-aeb4-
    471f-83da-82684dcd9c18/Plays/0541219d-e462-41ce-9cf2-
    3651a1148f92/PitchCompositeImage/Metric/0541219d-e462-41ce-9cf2-
    3651a1148f92.jpg?sv=2024-11-04&se=2026-06-
    11T09%3A56%3A26Z&sr=b&sp=r&sig=bFKKZeYa8KdV13EPNpkUsqkXk1j2KS6NdSauJq2
    ywAA%3D"
35    },
36    {
37      "type": "PlayerPositioningImages",
```

```

38     "url":
    "https://tmbbdataaapiimagesprod.blob.core.windows.net/50346283-aeb4-
471f-83da-82684dcd9c18/Plays/0541219d-e462-41ce-9cf2-
3651a1148f92/PitchReleasePlayerPositioningImage/Imperial/0541219d-
e462-41ce-9cf2-3651a1148f92_PitchRelease_Imperial.jpg?sv=2024-11-
04&se=2026-06-
11T09%3A56%3A26Z&sr=b&sp=r&sig=pGcp0h1M0aX0V5JGfWEhDuqXmtr%2BUeD6yKxuw
N5VgBM%3D"
39     },
40     {
41         "type": "PlayerPositioningImages",
42         "url":
    "https://tmbbdataaapiimagesprod.blob.core.windows.net/50346283-aeb4-
471f-83da-82684dcd9c18/Plays/0541219d-e462-41ce-9cf2-
3651a1148f92/PitchReleasePlayerPositioningImage/Metric/0541219d-e462-
41ce-9cf2-3651a1148f92_PitchRelease_Metric.jpg?sv=2024-11-04&se=2026-
06-
11T09%3A56%3A26Z&sr=b&sp=r&sig=0RCQkwMo0Z0M9sjar0d40XfqthZQ%2BJt%2Fp%2
BBDUKKsr3E%3D"
43     }
44 ]
45 }
46 }

```

Videos

Practice

SasToken approach

This method of accessing videos will be deprecated in the future (no set date yet). Please refer to the new way of getting access to videos found in the section below called VideoURL approach

Assuming the session identifier is known, the following request should be used to get access to Edgertronic or iPhone videos from practice sessions:

```

1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/media/practice/videotokens
  /<session_identifier>' \
2 --header 'Authorization: Bearer <access_token>'
3

```

The response will be a list of SAS tokens needed to access the videos sitting with Microsoft Azure. See slides on “Downloading images or videos” for examples on how to interact with Microsoft Azure using the below “tokens”, “entityPath” and “endpoint”.

```

1 [
2   {
3     "version": "1.1.0",
4     "type": "iPhoneVideos",
5     "token": "?sv=2018-03-
28&sr=c&sig=VTzCPKGaWN2zyLgX1R%2F4Bqr4h0747ktfbYGWCONEZoM%3D&se=2020-
12-11T15%3A24%3A31Z&sp=r1",
6     "entityPath": "tmbbdataapiipvideosprod",
7     "endpoint": "572bde50-0e50-4d28-8ab3-e475ae51d7ch",

```

```

8     "expiresAtUtc": "2021-06-18T11:35:15.197Z"
9   },
10  {
11    "version": "1.1.0",
12    "type": "EdgertronicVideos",
13    "token": "?sv=2018-03-
28&sr=c&sig=VTzCPKGaWN2zyLgX1R%2F4Bqr4h0747ktfbYGWCONEZoM%3D&se=2020-
12-11T15%3A24%3A31Z&sp=r1",
14    "entityPath": "tmbbdataapiiedvideosprod",
15    "endpoint": "028bde50-0e40-4c28-8ab3-e475ae51d7bd",
16    "expiresAtUtc": "2021-06-18T11:35:15.197Z"
17  }
18 ]

```

Sample response for a video with the metric overlay :

```

1  {
2    "version": "1.1.0",
3    "videoClipId": SID,
4    "sessionId": SESSIONID,
5    "playId": PLAYID,
6    "createdAt": "2024-06-10T08:40:04.752824Z",
7    "updatedAt": "2024-06-10T08:40:04.752824Z",
8    "height": 480,
9    "width": 640,
10   "framerate": 200,
11   "shutterSpeed": 2000.0,
12   "releasePointFrame": 40,
13   "videoDurationInSeconds": 0.8,
14   "cameraName": "Edgertronic",
15   "cameraType": "Edgertronic",
16   "overlayDetails": {
17     "name": "org#1hit",
18     "id": Trackman_hitting,
19     "originalClipId": ID
20   }
21 }

```

VideoURL approach

Assuming the session identifier is known, the following request should be used to get access to Edgertronic or iPhone videos from practice sessions:

```

1 curl --location --request GET
   'https://dataapi.trackmanbaseball.com/api/v1/media/practice/session/vid
   eourls/all/<session_identifier>' \
2 --header 'Authorization: Bearer <access_token>'
3

```

The response will be a list of plays. Each play contains a list of MediaItems which have a type and a direct URL to download the video.

```

1  {
2    "version": "1.1.0",
3    "plays": [
4      {
5        "playId": "0988fdad-d787-4447-9cdf-94f8cbf6c82d",
6        "mediaItems": [
7          {
8            "type": "iPhoneVideos",

```

```
9      "url":
"https://tmbbdataapiipvideosprod.blob.core.windows.net/96e04b98-cc8e-
4216-99cc-80735a690135/Plays/0988fdaa-d787-4447-9cdf-
94f8cbf6c82d/iPhone/0988fdaa-d787-4447-9cdf-94f8cbf6c82d.mov?sv=2024-
11-04&se=2026-06-
11T09%3A18%3A46Z&sr=b&sp=r&sig=Es9gJAUGhfomlEGfzeC6X9c0FkvAtWx0d5Et99q
t0%2Fg%3D"
10    },
11    {
12      "type": "EdgertronicVideos",
13      "url":
"https://tmbbdataapiipvideosprod.blob.core.windows.net/96e04b98-cc8e-
4216-99cc-80735a690135/Plays/b93a81b1-28f0-4d0c-b513-
9302b7fa43b3/iPhone/b93a81b1-28f0-4d0c-b513-9302b7fa43b3.mov?sv=2024-
11-04&se=2026-06-
11T09%3A18%3A46Z&sr=b&sp=r&sig=590sm8l6Yc0rI1NKZ2nSJIjFQ0afdtu9HckjPVk
0Q3Q%3D"
14    }
15  ]
16 },
17 {
18   "playId": "b93a81b1-28f0-4d0c-b513-9302b7fa43b3",
19   "mediaItems": [
20     {
21       "type": "iPhoneVideos",
22       "url":
"https://tmbbdataapiipvideosprod.blob.core.windows.net/96e04b98-cc8e-
4216-99cc-80735a690135/Plays/b93a81b1-28f0-4d0c-b513-
9302b7fa43b3/iPhone/b93a81b1-28f0-4d0c-b513-9302b7fa43b3.mov?sv=2024-
11-04&se=2026-06-
11T09%3A18%3A46Z&sr=b&sp=r&sig=590sm8l6Yc0rI1NKZ2nSJIjFQ0afdtu9HckjPVk
0Q3Q%3D"
23     }
24   ]
25 },
26 {
27   "playId": "bd610c65-faa3-43d1-aaf6-406264d033ae",
28   "mediaItems": [
29     {
30       "type": "iPhoneVideos",
31       "url":
"https://tmbbdataapiipvideosprod.blob.core.windows.net/96e04b98-cc8e-
4216-99cc-80735a690135/Plays/bd610c65-faa3-43d1-aaf6-
406264d033ae/iPhone/bd610c65-faa3-43d1-aaf6-406264d033ae.mov?sv=2024-
11-04&se=2026-06-
11T09%3A18%3A46Z&sr=b&sp=r&sig=7jtt9Gdb0XVDwZG88RhcATiWiv9w0hUUirXwYk4
ZAVs%3D"
32     }
33   ]
34 },
35 {
36   "playId": "1060e6e5-9148-4863-a369-4f1e472f9f74",
37   "mediaItems": [
38     {
39       "type": "iPhoneVideos",
40       "url":
"https://tmbbdataapiipvideosprod.blob.core.windows.net/96e04b98-cc8e-
4216-99cc-80735a690135/Plays/1060e6e5-9148-4863-a369-
4f1e472f9f74/iPhone/1060e6e5-9148-4863-a369-4f1e472f9f74.mov?sv=2024-
11-04&se=2026-06-
11T09%3A18%3A46Z&sr=b&sp=r&sig=Fp1RVBN2JNjN5DwchG64k%2FA2iNiempIr7uS5k3
eTkC4g%3D"
41     }
42   ]
43 }
44 ],
45 "expiresAtUtc": "2026-06-11T09:18:46.9495365Z"
```

Game

SasToken approach

This method of accessing videos will be deprecated in the future (no set date yet). Please refer to the new way of getting access to videos found in the section below called VideoURL approach

The following request should be used to fetch videos from a game:

```

1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/media/game/videotokens/<session_idenfier>' \
2 --header 'Authorization: Bearer <access_token>'
3

```

The response will be a list of SAS tokens needed to access the videos sitting with Microsoft Azure. See slides on “Downloading images or videos” for examples on how to interact with Microsoft Azure using the below “tokens”, “entityPath” and “endpoint”.

```

1 [
2   {
3     "version": "1.1.0",
4     "type": "PlayVideos",
5     "token": "?sv=2018-03-
28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk476IjWIKE%3D&se=2021-08-
25T07%3A58%3A09Z&sp=r1",
6     "entityPath": "tmbbdataapivvideosprod",
7     "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
8     "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
9   },
10  {
11    "version": "1.1.0",
12    "type": "CenterFieldVideos",
13    "token": "?sv=2018-03-
28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk476IjWIKE%3D&se=2021-08-
25T07%3A58%3A09Z&sp=r1",
14    "entityPath": "tmbbdataapivvideosprod",
15    "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
16    "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
17  },
18  {
19    "version": "1.1.0",
20    "type": "HighHomeVideos",
21    "token": "?sv=2018-03-
28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk476IjWIKE%3D&se=2021-08-
25T07%3A58%3A09Z&sp=r1",
22    "entityPath": "tmbbdataapivvideosprod",
23    "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
24    "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
25  },
26  {
27    "version": "1.1.0",
28    "type": "Pitcher1BVideos",
29    "token": "?sv=2018-03-
28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk476IjWIKE%3D&se=2021-08-
25T07%3A58%3A09Z&sp=r1",
30    "entityPath": "tmbbdataapivvideosprod",

```

```

31     "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
32     "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
33   },
34   {
35     "version": "1.1.0",
36     "type": "Pitcher3BVideos",
37     "token": "?sv=2018-03-
28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk476IjWIKE%3D&se=2021-08-
25T07%3A58%3A09Z&sp=r1",
38     "entityPath": "tmbbdataapipvvideosprod",
39     "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
40     "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
41   },
42   {
43     "version": "1.1.0",
44     "type": "Batter1BVideos",
45     "token": "?sv=2018-03-
28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk476IjWIKE%3D&se=2021-08-
25T07%3A58%3A09Z&sp=r1",
46     "entityPath": "tmbbdataapipvvideosprod",
47     "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
48     "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
49   },
50   {
51     "version": "1.1.0",
52     "type": "Batter3BVideos",
53     "token": "?sv=2018-03-
28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk476IjWIKE%3D&se=2021-08-
25T07%3A58%3A09Z&sp=r1",
54     "entityPath": "tmbbdataapipvvideosprod",
55     "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
56     "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
57   },
58 ]

```

VideoURL approach

The following request should be used to fetch videos from a game:

```

1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/media/game/session/videour
  ls/all/<session_idenfier>' \
2 --header 'Authorization: Bearer <access_token>'
3

```

The response will be a list of plays. Each play contains a list of MediaItems which have a type and a direct URL to download the video.

```

1 {
2   "version": "1.1.0",
3   "plays": [
4     {
5       "playId": "914f4623-dbda-4410-b1ca-d32315cefa8a",
6       "mediaItems": [
7         {
8           "type": "PlayVideos",
9
10          "url": "https://tmbbdataapipvvideosprod.blob.core.windows.net/71635e2c-
11          edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-

```

```
d32315cefa8a/PlayVideo/914f4623-dbda-4410-b1ca-d32315cefa8a_4K.mkv?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A42Z&sr=b&sp=r&sig=Kr7tCW2NIeF5LKIBKcYo%2BPnEuvQVOIRebs0kj
kn2px0%3D"
10         },
11         {
12             "type": "CenterFieldVideos",
13
14         "url": "https://tmbbdataapicfvideosprod.blob.core.windows.net/71635e2c-
15 edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-
16 d32315cefa8a/CenterField/CF_39_914f4623-dbda-4410-b1ca-
17 d32315cefa8a.mp4?sv=2024-11-04&se=2026-02-
18 19T15%3A49%3A57Z&sr=b&sp=r&sig=P58QiydrhITesmumfFaf8XiekBvCUW1%2F9PACI
19 fcSIMY%3D"
20         },
21         {
22             "type": "HighHomeVideos",
23
24         "url": "https://tmbbdataapihhvideosprod.blob.core.windows.net/71635e2c-
25 edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-
26 d32315cefa8a/HighHome/HH_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?
27 sv=2024-11-04&se=2026-02-
28 19T15%3A49%3A57Z&sr=b&sp=r&sig=vmZKL6h614qMRjdN4KsoBukAwYRBPR4bbzWJpAc
29 d4ic%3D"
30         },
31         {
32             "type": "Batter1BVideos",
33
34         "url": "https://tmbbdataapib1videosprod.blob.core.windows.net/71635e2c-
35 edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-
36 d32315cefa8a/Batter1B/B1_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A58Z&sr=b&sp=r&sig=n9uoW5bHA%2FmxD4dkfVJquVqsPH0tiLv4%2BC8
FSj2%2FE2U%3D"
22         },
23         {
24             "type": "Batter3BVideos",
25
26         "url": "https://tmbbdataapib3videosprod.blob.core.windows.net/71635e2c-
27 edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-
28 d32315cefa8a/Batter3B/B3_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?
29 sv=2024-11-04&se=2026-02-
30 19T15%3A49%3A58Z&sr=b&sp=r&sig=DVp9zKGFq1MPkFEmGxvVz6zPU%2FiAI%2BSLDHF
31 %2Bje48Utg%3D"
32         },
33         {
34             "type": "Pitcher1BVideos",
35
36         "url": "https://tmbbdataapip1videosprod.blob.core.windows.net/71635e2c-
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d32315cefa8a/Pitcher1B/P1_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A59Z&sr=b&sp=r&sig=uEuidPQg0%2BJGnSIHRi%2FRtqEs17fuKNq1AiB
UYnBxdMo%3D"
30         },
31         {
32             "type": "Pitcher3BVideos",
33
34         "url": "https://tmbbdataapib1videosprod.blob.core.windows.net/71635e2c-
edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-
d32315cefa8a/Batter1B/B1_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A57Z&sr=b&sp=r&sig=h3NzsPFLtgXbI2QC9xeZTdc1YpGo0SwLxBSwzRv
L2ns%3D"
34         }
35     ]
36 },
```

```

37     {
38         "playId":"c4b3e4d9-e183-4891-8292-e3c1fa121e1b",
39         "mediaItems":[
40             {
41                 "type":"PlayVideos",
42                 "url":"https://tmbbdataaipvvideosprod.blob.core.windows.net/71635e2c-
edc9-4aab-9216-a527cee5f145/Plays/c4b3e4d9-e183-4891-8292-
e3c1fa121e1b/PlayVideo/9c4b3e4d9-e183-4891-8292-e3c1fa121e1b_4K.mkv?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A42Z&sr=b&sp=r&sig=s6i8jhkP0HRI5iQm0ez4SiLk28Uqm9H4y06YL3t
CBKw%3D"
43             },
44             {
45                 "type":"CenterFieldVideos",
46                 "url":"https://tmbbdataapicfvideosprod.blob.core.windows.net/71635e2c-
edc9-4aab-9216-a527cee5f145/Plays/c4b3e4d9-e183-4891-8292-
e3c1fa121e1b/CenterField/CF_121_c4b3e4d9-e183-4891-8292-
e3c1fa121e1b.mp4?sv=2024-11-04&se=2026-02-
19T15%3A49%3A57Z&sr=b&sp=r&sig=vUZtro5Z0L4ikYS3pjgiEo%2BKda6YZR02WGomV
Q1BoGM%3D"
47             },
48             {
49                 "type":"HighHomeVideos",
50                 "url":"https://tmbbdataapihhvideosprod.blob.core.windows.net/71635e2c-
edc9-4aab-9216-a527cee5f145/Plays/c4b3e4d9-e183-4891-8292-
e3c1fa121e1b/HighHome/HH_121_c4b3e4d9-e183-4891-8292-e3c1fa121e1b.mp4?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A57Z&sr=b&sp=r&sig=wKsJcePJhKJvj6lu7bCAi4lvBpkW0IxXsL5UjZR
C9eo%3D"
51             },
52             {
53                 "type":"Batter1BVideos",
54                 "url":"https://tmbbdataapib1videosprod.blob.core.windows.net/71635e2c-
edc9-4aab-9216-a527cee5f145/Plays/c4b3e4d9-e183-4891-8292-
e3c1fa121e1b/Batter1B/B1_121_9c4b3e4d9-e183-4891-8292-
e3c1fa121e1b.mp4?sv=2024-11-04&se=2026-02-
19T15%3A49%3A58Z&sr=b&sp=r&sig=zLyrRWGTua4%2FCpT80j3Yua0EW0w0LIraq4zEL
jZ%2FIAM%3D"
55             },
56             {
57                 "type":"Batter3BVideos",
58                 "url":"https://tmbbdataapib3videosprod.blob.core.windows.net/71635e2c-
edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-
d32315cefa8a/Batter3B/B3_121_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A58Z&sr=b&sp=r&sig=ZD0XE9365ngxiKiJCpdyk0ki1umUQ1S5IA8S4b1
h11I%3D"
59             },
60             {
61                 "type":"Pitcher1BVideos",
62                 "url":"https://tmbbdataaip1videosprod.blob.core.windows.net/71635e2c-
edc9-4aab-9216-a527cee5f145/Plays/c4b3e4d9-e183-4891-8292-
e3c1fa121e1b/Pitcher1B/P1_121_c4b3e4d9-e183-4891-8292-
e3c1fa121e1b.mp4?sv=2024-11-04&se=2026-02-
19T15%3A49%3A59Z&sr=b&sp=r&sig=Fi0tMgVH6HVoMr11ExtI7Qy%2FSFrLwI2%2F9Xq
iCModH%2B8%3D"
63             },
64             {
65                 "type":"Pitcher3BVideos",
66                 "url":"https://tmbbdataapib1videosprod.blob.core.windows.net/71635e2c-

```

```

edc9-4aab-9216-a527cee5f145/Plays/c4b3e4d9-e183-4891-8292-
e3c1fa121e1b/Batter1B/B1_121_c4b3e4d9-e183-4891-8292-e3c1fa121e1b.mp4?
sv=2024-11-04&se=2026-02-
19T15%3A49%3A57Z&sr=b&sp=r&sig=VJLkeFaZ49bHHQSVpZ1hCIXJ4bbkeK6qyox4tVq
TL50%3D"
67     }
68   ]
69 }
70 ]
71 }

```

Metadata

Practice

Assuming the session identifier is known the following request should be used in order to get access to metadata for Edgertronic or iPhone videos from practice sessions:

```

1 curl --location --request GET
  'https://dataapi.trackmanbaseball.com/api/v1/media/practice/videometada/
  <session_idenfifier>' \
2 --header 'Authorization: Bearer <access_token>'
3

```

The response will be an array of Json VideoMetadata objects:

```

1 [
2   {
3     "version": "1.0.0",
4     "videoClipId": "04d71b29-a118-4bf9-abc4-3751669134d6",
5     "sessionId": "c9611503-6bdc-4bf9-9197-b881d8ee0644",
6     "playId": "55d733d4-b712-2354-ae64-51d86b0b5305",
7     "createdAt": "2024-01-05T18:02:28.683068Z",
8     "updatedAt": "2024-01-05T18:02:28.683068Z",
9     "height": 720,
10    "width": 1280,
11    "framerate": 600,
12    "shutterSpeed": 2000,
13    "releasePointFrame": 60,
14    "videoDurationInSeconds": 0.25,
15    "cameraName": "Edgertronic",
16    "cameraType": "Edgertronic",
17    "cameraTarget": "PitchersBack",
18    "adjustedReleasePointFrame": 93"
19    "overlayDetails": {
20      "name": "org#1hit",
21      "id": "4ac6c068-5778-4eb7-bc10-f5c6aafe1fe0",
22      "originalClipId": "4557d223-9583-418a-b879-560baebd1542"
23    }
24  }
25 ]

```

Downloading Media

- Each container in the Microsoft Azure storage account equals a V3 game or B1 session.
- The container is named after the session identifier (GUID).

- Each image container has this sub-structure: /Plays/{PlayId}/{Type}/{UnitSystem}.
 - Plays is a constant string.
 - PlayId is a GUID.
 - Type is an enum of types [Unknown, PitchCompositeImage, HitCompositeImage, PitchReleasePlayerPositioningImage].
 - UnitSystem is an enum of types [Unknown, Imperial, Metric].
 - Only present if the image has data overlay
- Each video container has this sub-structure: /Plays/{PlayId}/{VideoType}/{UnitSystem}.
 - Plays is a constant string.
 - PlayId is a GUID.
 - VideoType is an enum of types [Unknown, Edgertronic, iPhone, PTU].
 - UnitSystem is an enum of types [Unknown, Imperial, Metric].
 - Only present if the video has data overlay

Using Azure API

The general template for listing the resources inside the container is:

```
1 curl
  https://<entityPath>.blob.core.windows.net/<endpoint>/<token>&comp=list
  &restype=container
```

- <token>, <entityPath> and <endpoint> correspond to the attributes of the response from TrackMan Data API.

This will return a list of blobs. In order to download the individual blob point to the resource's URL and append the SAS token

```
1 curl https://<entityPath>.blob.core.windows.net/<endpoint>/<blobname>
  <token>
2
```

Using Azure SDK

The following code (C#) shows how to list the resources on a given container with a valid SAS token. The nuget package Azure.Storage.Blobs (v 12.4 or above) will be needed in order to run this code.

```
1 public void ListResources(){
2     var blobServiceClient = new BlobServiceClient(new
  Uri($"https://<entityPath>.blob.core.windows.net/<token>"));
3     var client =
  blobServiceClient.GetBlobContainerClient(<endpoint>);
4     foreach (var blobItem in client.GetBlobs(BlobTraits.None,
  BlobStates.None))
5     {
```

```
6         Console.WriteLine(blobItem.Name);
7     }
8 }
9
```

Once the file names are known, they can be downloaded using HTTPClient in .NET or the equivalent in the programming language of your choice.

IP address whitelist

As an optional extra security measure TrackMan can limit which IP addresses the requests towards the Data API are allowed to originate from.

Change Log

v2.1 – Added section 8.3 Metadata and 8.31 Practice

This section covers instructions on how to query for Video metadata from Practice sessions as well as a sample JSON response.

v2.5 – Added the following:

Section 9.2, updated with sample JSON response for Practice videos with metric overlay

Section 9.2.2 updated with sample JSON response if V3 External Video clips are available for desired game session.

Removed documentation for old endpoints

V2.6 – Made the following changes:

Section 2, Deprecated information on how to obtain a OAuth 2.0 Bearer Token and replaced with new steps.

Section 5.1, Deprecated POST request sample for access tokens and replaced with new sample POST request.

v3.0 - Added Game Bat data