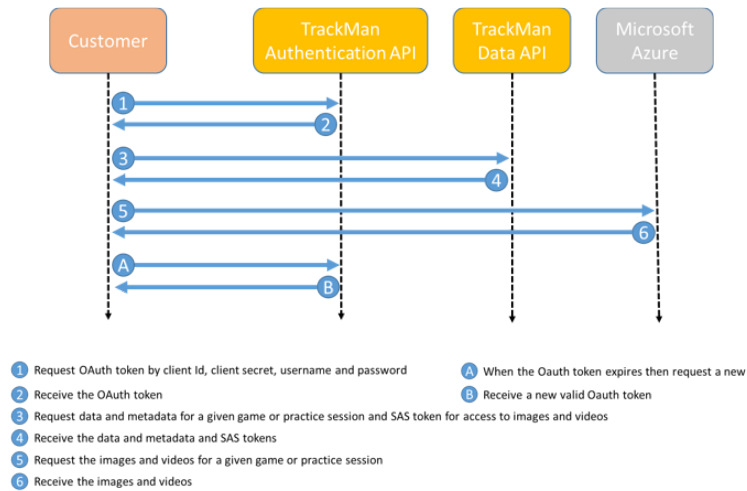


TrackMan Baseball API Quick Start Guide for Customers v3.1

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

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_id>	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/bats/ <session_id>	
Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/plays/ <session_id>	

Game data	https://dataapi.trackmanbaseball.com/api/v1/data/game/session/ <session_idenfier>	
Practice data	https://dataapi.trackmanbaseball.com/api/v1/data/practice/balls/ <session_idenfier>	
Practice data	https://dataapi.trackmanbaseball.com/api/v1/data/practice/plays/ <session_idenfier>	
Practice data	https://dataapi.trackmanbaseball.com/api/v1/data/practice/session/ <session_idenfier>	
Game discovery	https://dataapi.trackmanbaseball.com/api/v1/discovery/game/sessions	
Practice discovery	https://dataapi.trackmanbaseball.com/api/v1/discovery/practice/sessions	
Game media	https://dataapi.trackmanbaseball.com/api/v1/media/game/imagetokens/ <session_idenfier>	
Game media	https://dataapi.trackmanbaseball.com/api/v1/media/game/videotokens/ <session_idenfier>	
Practice media	https://dataapi.trackmanbaseball.com/api/v1/media/practice/videotokens/ <session_idenfier>	
Practice metadata	https://dataapi.trackmanbaseball.com/api/v1/media/practice/videometadata/ <session_idenfier>	

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
3 'https://login.trackman.com/connect/token'
4 --header 'Content-Type: application/x-www-form-urlencoded'
5 --data-urlencode 'client_id=<client_id>'
6 --data-urlencode 'client_secret=<client_secret>'
7 --data-urlencode 'grant_type=password'
8 --data-urlencode 'username=<username>'
9 --data-urlencode 'password= <password>'

```

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

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
2 "https://dataapi.trackmanbaseball.com/api/v1/discovery/game/sessions"
3 -H "accept: text/plain"
4 -H "Content-Type: application/json-patch+json"
5 -d "{\"sessionType\":\"All\",\"utcDateFrom\":\"2021-01-
6 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" }
19  }
20 ]
```

Practice sessions

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

```
1 curl -X POST
2 "https://dataapi.trackmanbaseball.com/api/v1/discovery/practice/session
3 s"
4 -H "accept: text/plain"
5 -H "Content-Type: application/json-patch+json"
6 -d "{\"sessionType\":\"All\",\"utcDateFrom\":\"2021-01-
7 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_
  _identifier>' \
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     "pfxx": -7.00796,
52     "pfxz": 8.60378
53   },
54   "speedDrop": 6.41486,
55   "Flight": {
56     "polyFit": {
57       "pitchTrajectory": {
58         "x": [
59           56.37322,
60           -97.30665,
61           8.29679
62         ],
63         "y": [
64           5.34323,
65           3.54739,
66           -12.10275
67         ],
68         "z": [
69           -1.77571,
70           2.77417,
71           -3.24527
72         ]
73       }
74     }
75   },
76   "effectiveVelo": 63.3597
77 }
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     "pfxx": -5.29418,
67     "pfxz": 9.19485
68   },
69   "speedDrop": 8.34933,
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 },
75 "batUnsmoothedXYZ": [
76     {
77         "camPair": [
78             "BatHome",
79             "BatLeft"
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 ]

```

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/<sessi
  on_identifier>' \
2 --header '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 }
```

```

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

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_id>' \
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=r1",
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=r1",
14    "entityPath": "tmbbdataapippimagesprod",
15    "endpoint": "2a2e739b-1955-41b7-81de-bd292b035e54",
16    "expiresAtUtc": "2021-04-14T12:39:49.7341683Z"
17  }
18 ]

```

Videos

Practice

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

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

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-
6 28&sr=c&sig=VTzCPKGaWN2zyLgX1R%2F4Bqr4h0747ktfbYGWCONEZoM%3D&se=2020-
7 12-11T15%3A24%3A31Z&sp=r1",
8     "entityPath": "tmbbdataapiipvideosprod",
9     "endpoint": "572bde50-0e50-4d28-8ab3-e475ae51d7ch",
10    "expiresAtUtc": "2021-06-18T11:35:15.197Z"
11  },
12  {
13    "version": "1.1.0",
14    "type": "EdgertronicVideos",
15    "token": "?sv=2018-03-
16 28&sr=c&sig=VTzCPKGaWN2zyLgX1R%2F4Bqr4h0747ktfbYGWCONEZoM%3D&se=2020-
17 12-11T15%3A24%3A31Z&sp=r1",
18    "entityPath": "tmbbdataapiiedvideosprod",
19    "endpoint": "028bde50-0e40-4c28-8ab3-e475ae51d7bd",
20    "expiresAtUtc": "2021-06-18T11:35:15.197Z"
21  },
22  {
23    "version": "1.1.0",
24    "type": "PlayVideos",
25    "token": "?sv=2018-03-
26 28&sr=c&sig=04WGEIevvd3vK0B7UDfJ4DZXEBR11Hzvuk47GIjWIKE%3D&se=2021-08-
27 25T07%3A58%3A09Z&sp=r1",
28    "entityPath": "tmbbdataapiipvvideosprod",
29    "endpoint": "2502cd67-fd3b-47b9-9cc0-14535f21598a",
30    "expiresAtUtc": "2021-08-25T07:58:09.3418109Z"
31  }
32 ]
```

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 }
```

Game

SasToken approach

This method of getting access to 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": "tmbbdataaipvvideosprod",
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": "tmbbdataaipvvideosprod",
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": "tmbbdataaipvvideosprod",
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": "tmbbdataaipvvideosprod",
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": "tmbbdataaipvvideosprod",
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": "tmbbdataaipvvideosprod",
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": "tmbbdataaipvvideosprod",
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/videourls/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 has 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           "url": "https://tmbbdataapipvvideosprod.blob.core.windows.net/71635e2c-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%2BPnEuvQV0IRbs0kjkn2px0%3D"
10        },
11        {
12          "type": "CenterFieldVideos",
13          "url": "https://tmbbdataapicfvideosprod.blob.core.windows.net/71635e2c-edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-d32315cefa8a/CenterField/CF_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?sv=2024-11-04&se=2026-02-19T15%3A49%3A57Z&sr=b&sp=r&sig=P58QiydrhITesumfFaf8XiekBvCUW1%2F9PACIFcSIMY%3D"
14        },
15        {
16          "type": "HighHomeVideos",
17          "url": "https://tmbbdataapihhvideosprod.blob.core.windows.net/71635e2c-edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-d32315cefa8a/HighHome/HH_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?sv=2024-11-04&se=2026-02-19T15%3A49%3A57Z&sr=b&sp=r&sig=vmZKL6h614qMRjdN4KsoBukAwYRBPR4bbzWJpAc d4ic%3D"
18        },
19        {
20          "type": "Batter1BVideos",
21          "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%3A58Z&sr=b&sp=r&sig=n9uoW5bHA%2FmxD4dkfVJquVqsPH0tiLv4%2BC8FSj2%2FE2U%3D"
22        },
23        {
24          "type": "Batter3BVideos",
25          "url": "https://tmbbdataapib3videosprod.blob.core.windows.net/71635e2c-edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-d32315cefa8a/Batter3B/B3_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?sv=2024-11-04&se=2026-02-19T15%3A49%3A58Z&sr=b&sp=r&sig=DVp9zKGfQlMPkFEmGxvVz6zPU%2FiAI%2BSLDHF%2Bje48Ut%3D"
26        },
27        {
28          "type": "Pitcher1BVideos",
29          "url": "https://tmbbdataapip1videosprod.blob.core.windows.net/71635e2c-edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-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%2BJ6nSIHRi%2FRtqEs17fuKNq1AiBYUNBxdMo%3D"
30        },
31        {
32          "type": "Pitcher3BVideos",
33          "url": "https://tmbbdataapip3videosprod.blob.core.windows.net/71635e2c-edc9-4aab-9216-a527cee5f145/Plays/914f4623-dbda-4410-b1ca-d32315cefa8a/Pitcher3B/P3_39_914f4623-dbda-4410-b1ca-d32315cefa8a.mp4?sv=2024-11-04&se=2026-02-19T15%3A49%3A59Z&sr=b&sp=r&sig=uEuidPQg0%2BJ6nSIHRi%2FRtqEs17fuKNq1AiBYUNBxdMo%3D"
34        }
35      ]
36    }
37  ]
38 }
```

```
32         "type": "Pitcher3BVideos",
33     "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://tmbbdataapipvvideosprod.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=s6i8jkhP0HRI5iQmOez4SiLk28Uqm9H4y0GYL3t
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://tmbbdataapip1videosprod.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/videometad
  ta/<session_identifier>' \
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