Quality Metrics (BETA)

In this topic, you will learn about quality metrics provided by the Analytics API. Quality metrics are included in most dimension reports, and help you see the quality of the playback experience for your users.

> ❗ All features discussed in this topic are currently in beta release, and the final implementation may change.

Discussed in this topic:

- [Available quality fields](#)
- [Calculated fields](#)
- [Sample request](#)

Available quality fields

The following quality of playback fields are currently available:

Metric	Description
errors_before_view	Total number of requested playback sessions which ended before playback began due to an error.
errors_during_view	Total number of playback sessions which ended due to an error.
load_time_ms	Total load time across all load time measurements which is the time to when the player displays a poster image which we refer to as an impression (the average is this metric divided by the count below).
load_time_ms_count	Number of times that a valid load time measurement was made.
measured_bps	Total sum of the measured client bandwidth.
measured_bps_count	Number of times a valid measured bps measurement was made
play_request[1]	Number of playback requests (this occurs when a viewer presses play or an autoplay event is triggered).
start_time_ms	Total start time across all start time measurements which is the time between the play request and the first frame, which we refer to as a video view event (the average is this metric divided by the count below).
start_time_ms_count	Number of times a valid measured bps measurement

	was made.
`video_view`[1]	Number of times a viewer was successfully able to begin playback of a video stream (occurs when first frame of video is displayed).

Notes

[1] This metric is not new, but is included here because it is useful for gauging the quality of playback experience.

Calculated fields

You can add calculated fields to your API requests using the syntax:

```
1   fields=calulated_field_name:expression
```

The name for the calculated field can be any URI-compatible string. The expression can include regular field names and arithmatic operators. ("+" signs should be encoded as %2B and "−" signs as %2D)

Example

```
1   fields=total_errors:errors_before_view%2Berrors_during_view,avg_sec_vi
```

Sample request

To return the quality of playback fields, simply include them in the `field` parameter list. Below is a sample request, including all the currently available quality metrics and some calculated fields. The response is shown below the request.

```
https://analytics.api.brightcove.com/v1/data?
accounts=20318290001&dimensions=account,video&where=video==398952711
6001&fields=errors_before_view,errors_during_view,start_time_ms,star
t_time_ms_count,load_time_ms,load_time_ms_count,measured_bps,measure
d_bps_count,play_request,video_view,average_load_time:load_time_ms/l
oad_time_ms_count,average_start_time:start_time_ms/start_time_ms_cou
nt
```

Response

```json
{
  "item_count": 1,
  "items": [
    {
      "video": "3989527116001",
      "account": "20318290001",
      "errors_before_view": null,
      "errors_during_view": null,
      "start_time_ms": 50353,
      "start_time_ms_count": 176,
      "load_time_ms": 1954760,
      "load_time_ms_count": 173,
      "measured_bps": 25164660511,
      "measured_bps_count": 606,
      "play_request": 603,
      "video_view": 177,
      "average_load_time": 11299.190751445087,
      "average_start_time": 286.09659090909093
    }
  ],
  "summary": {
    "errors_before_view": 0,
    "measured_bps": 25164660511,
    "load_time_ms": 1954760,
    "average_start_time": 286.09659090909093,
    "load_time_ms_count": 173,
    "video_view": 177,
    "start_time_ms": 50353,
    "play_request": 603,
    "errors_during_view": 0,
    "measured_bps_count": 606,
    "average_load_time": 11299.190751445087,
    "start_time_ms_count": 176
  }
}
```