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.
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).
rebuffering_rate	Percentage of playback time during which the

	video was buffering.
`average_rebuffering_time`	Average amount of rebuffering time per video view.
`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 is not a quality metric per se, 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

```
fields=total_errors:errors_before_view%2Berrors_during_view,
avg_sec_viewed:video_seconds_viewed/video_view
```

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==3
989527116001&fields=errors_before_view,errors_during_view,st
art_time_ms,start_time_ms_count,measured_bps,measured_bps_co
unt,play_request,video_view,average_start_time:start_time_ms
/start_time_ms_count
```

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,
      "measured_bps": 25164660511,
      "measured_bps_count": 606,
      "play_request": 603,
      "video_view": 177,
      "average_start_time": 286.09659090909093
    }
  ],
  "summary": {
    "errors_before_view": 0,
    "measured_bps": 25164660511,
    "average_start_time": 286.09659090909093,
    "video_view": 177,
    "start_time_ms": 50353,
    "play_request": 603,
    "errors_during_view": 0,
    "measured_bps_count": 606,
    "start_time_ms_count": 176
  }
}
```