View usage data with the Wowza Streaming Cloud REST API

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Learn how to use the REST API to get usage data for an account in the Wowza Streaming Cloud™ service. Usage data includes stream processing time for transcoders, usage for stream targets, egress for transcoders, and peak recording storage.

To learn how to get usage data for an ultra low latency stream target, see View ultra low latency usage with the Wowza Streaming Cloud REST API.

Usage parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>from</td>
<td>datetime</td>
<td>The start of the range of time you want to view. The default from is the last billing date. For transcoder stream processing time or peak recording storage requests, specify YYYY-MM-DD HH:MM:SS where HH is a 24-hour clock in UTC. For usage requests for stream targets, or transcoders, specify YYYY-MM-DD HH:00:00 where HH is a 24-hour clock in UTC. The range doesn't include minutes and seconds and rounds minutes up to the hour. The maximum difference between from and to is 90 days. If you set the from query parameter without setting the to query parameter, the data returned will reflect 90 days starting at the from date, or data up to to the current day, whichever is shorter.</td>
</tr>
<tr>
<td>to</td>
<td>datetime</td>
<td>The end of the range of time you want to view. The</td>
</tr>
</tbody>
</table>
default to is the end of the current day.

For transcoder stream processing time or peak recording storage requests, specify **YYYY-MM-DD HH:MM:SS** where **HH** is a 24-hour clock in UTC.

For usage requests for stream targets, or transcoders, specify **YYYY-MM-DD HH:00:00** where **HH** is a 24-hour clock in UTC. The range doesn’t include minutes and seconds and rounds minutes up to the hour. The maximum difference between from and to is 90 days. If you set the to query parameter without setting the from query parameter, the data returned will be from the past 90 days or from your last invoice date, whichever is shorter.

**View usage for stream targets**

Usage for stream targets is the amount of data that went through every Wowza Streaming Cloud stream target.

To view usage details for all stream targets in the account, call the resource

```
https://api.cloud.wowza.com/api/[version]/usage/stream_targets
```

**Example request and response**

**Notes:**

- To authenticate API requests, use **HMAC authentication** for production environments. For testing or proof of concept purposes only, use **API key and access key authentication**.
- The curl examples below use environment variables. See **Using cURL** for more information on how to set these up.
- The **--data-urlencode** option in the example curl commands replaces unprintable and special characters, such as spaces, curly brackets, forward slashes, and semicolons, with ASCII-safe, unambiguous characters that are understood across the Internet.
curl -X GET \
-H "wsc-api-key: ${WSC_API_KEY}" \
-H "wsc-access-key: ${WSC_ACCESS_KEY}" \
"${WSC_HOST}/api/${WSC_VERSION}/usage/stream_targets?from=2019-11-07 15:00:00&to=2019-12-05 15:00:00"

**Note:** The response is paginated with a default `per_page` value of **1000**. For more information on paginating query results, see [Get paginated query results with the Wowza Streaming Cloud REST API](#).

The response provides detailed information for all stream targets in the account, including the stream target ID, type of target, unique viewers, viewing time, total bytes of usage for the target, and bytes of usage per billing zone.
{  "stream_targets": [    {      "id": "nlyjxjbc",      "name": "My Stream Target",      "archived": true,      "type": "fastly",      "unique_viewers": 34,      "viewing_time": 180990,      "bytes": 37067405516,      "zones": [        {          "name": "global",          "type": "fastly",          "bytes": 37067405516        }      ]    },    {      "id": "zwry3gq?",      "name": "My Other Stream Target",      "archived": false,      "type": "fastly",      "unique_viewers": 1,      "viewing_time": 90,      "bytes": 27258685,      "zones": [        {          "name": "global",          "type": "fastly",          "bytes": 27258685        }      ]    }  ],  "pagination": {    "total_records": 2,    "page": 1,    "per_page": 1000,    "total_pages": 1,    "page_first_index": 0,    "page_last_index": 55  },  "limits": {    "from": "2019-11-07T15:00:00.000Z",    "to": "2019-12-05T15:00:00.000Z"  }}
Fetch a summary of stream target usage for the account:

```sh
curl -X GET
-H "wsc-api-key: ${WSC_API_KEY}"
-H "wsc-access-key: ${WSC_ACCESS_KEY}"
"${WSC_HOST}/api/${WSC_VERSION}/usage/stream_targets/summary?from=2019-08-04 15:00:00&to=2019-09-04 15:00:00"
```

The response provides aggregate account information for all stream targets, including unique viewers, viewing time, and bytes of usage per billing zone.

Fetch usage details for a single stream target:

```sh
curl -X GET
-H "wsc-api-key: ${WSC_API_KEY}"
-H "wsc-access-key: ${WSC_ACCESS_KEY}"
"${WSC_HOST}/api/${WSC_VERSION}/usage/stream_targets/[stream_target_id]?from=2019-08-04 15:00:00&to=2019-09-04 15:00:00"
```

The response provides detailed information for a single stream target, including the stream target ID, type of target, unique viewers, viewing time, total bytes of usage for the target, and bytes of usage per billing zone.

Fetch usage data per country for a single stream target:

```sh
curl -X GET
-H "wsc-api-key: ${WSC_API_KEY}"
-H "wsc-access-key: ${WSC_ACCESS_KEY}"
"${WSC_HOST}/api/${WSC_VERSION}/usage/stream_targets/[stream_target_id]/countries"
```

The response provides detailed usage information for the stream target, broken out by country. Details for each country where the stream was requested include the country code, country name, unique viewers, viewing time, total bytes of usage for the target, and bytes of usage per billing zone.

Fetch usage data per rendition for a single stream target:

```sh
curl -X GET
-H "wsc-api-key: ${WSC_API_KEY}"
-H "wsc-access-key: ${WSC_ACCESS_KEY}"
"${WSC_HOST}/api/${WSC_VERSION}/usage/stream_targets/[stream_target_id]/renditions"
```

The response provides detailed usage information for the stream target, broken out by output rendition. Details for each rendition include the rendition name, unique viewers, viewing time, total bytes of usage for the target, and bytes of usage per...
View usage for transcoders

Transcoder usage (egress) includes traffic leaving Wowza Streaming Cloud for Wowza CDN and custom stream targets.

To view transcoder egress, call the resource

https://api.cloud.wowza.com/api/[version]/usage/transcoders

Example request and response

```
curl -X GET   
-H "wsc-api-key: ${WSC_API_KEY}" 
-H "wsc-access-key: ${WSC_ACCESS_KEY}" 
--data-urlencode 'from=2019-07-01 12:00:00' 
--data-urlencode 'to=2019-07-16 12:00:00' 
"${WSC_HOST}/api/${WSC_VERSION}/usage/transcoders"
```

The query returns details on all transcoder usage during the specified timeframe.
Fetch a summary of transcoder usage for the account:
{
   
"transcoders": [ 

   {
       "bytes": 53446778562,
       "archived": false,
       "id": "1237abcd",
       "name": "RTMP-Pull-Street",
       "transcoder_type": "transcoded",
       "billing_mode": "pay_as_you_go",
       "seconds": "13241234"
   },
   {
       "bytes": 119542733,
       "archived": true,
       "id": "1238abcd",
       "name": "RTMP Pull test",
       "transcoder_type": "transcoded",
       "billing_mode": "twentyfour_seven",
       "seconds": "23423453"
   },
   {
       "bytes": 14109171,
       "archived": true,
       "id": "1239abcd",
       "name": "IP camera stream",
       "transcoder_type": "passthrough",
       "billing_mode": "pay_as_you_go",
       "seconds": "75686798"
   }

   ],
   
"pagination": { 
   
   "page": 3,
   "page_first_index": 6,
   "page_last_index": 8,
   "per_page": 3,
   "total_pages": 710,
   "total_records": 2130

   },
   "limits": { 
   
   "from": "2019-10-01T07:00:00.000Z",
   "to": "2019-10-16T11:00:00.000Z"

   }

}
The query returns aggregate usage information for all transcoders on the account during the specified timeframe.

Fetch usage data for a single transcoder:

```
curl -X GET  
-H "wsc-api-key: ${WSC_API_KEY}" 
-H "wsc-access-key: ${WSC_ACCESS_KEY}" 
--data-urlencode 'from=2019-07-01 12:00:00' 
--data-urlencode 'to=2019-07-16 12:00:00' 
"${WSC_HOST}/api/${WSC_VERSION}/usage/transcoders/summary"
```

The query returns usage details on a single transcoder during the specified timeframe.

View peak recording storage

Peak recording storage is the greatest amount of recorded content stored in your Wowza Streaming Cloud account at any point in a given month. For example, if during the course of a month you record five live streams, delete two recordings and keep three recordings, your peak recording storage will be the amount of data stored for the five recordings.

To view peak recording storage, call the resource

```
https://api.cloud.wowza.com/api/[version]/usage/storage/peak
```

Example request and response

```
curl -X GET  
-H "wsc-api-key: ${WSC_API_KEY}" 
-H "wsc-access-key: ${WSC_ACCESS_KEY}" 
--data-urlencode 'from=2019-12-07 12:00:00' 
--data-urlencode 'to=2019-12-21 12:00:00' 
"${WSC_HOST}/api/${WSC_VERSION}/usage/storage/peak"
```

The query returns the greatest amount of bytes stored in your account at any one
point in the specified timeframe.

```json
{
   "peak": {
      "recordings": {
         "bytes": 15130718193
      }
   },
   "limits": {
      "from": "2019-12-07T00:00:00.000Z",
      "to": "2019-12-21T00:00:00.000Z"
   }
}
```