TOC

Introduction

Welcome to the Comscore API User Guide. An Application Programming Interface (API) is a set of routines, protocols, and tools for building software applications. The Comscore API is used by our customers to view rating, average audience, share, demographic data, and commercial ratings for television viewership.

The API provides Comscore customers with direct access to television viewing data. Use it to view rating, average audience, share, demographic data, and commercial ratings for television viewership. We currently have National Airing Views, Local Airing Views, Local Time Views, and Metadata endpoints available. The Comscore API is used by our customers to view rating, average audience, share, demographic data, and commercial ratings for television viewership.

See Constructing an API Request for more details.

Note: Click here to view the PDF version of this user guide.

Constructing an API Request

Overview

Refer to the table below for a summary of required API request elements:

Term	Definition
Protocol	Data access is provided via HTTP over SSL/TLS (HTTPS).
Hostname	API services are available on our www.api.rentrak.com domain.
Data Type	JSON is the only supported data type.
API Method	API calls are made via the POST method.
Authentication	The supported authentication scheme is covered on our Authentication page.
Request Parameters	Key/Value pairs of request data.

API Versions

https://api.rentrak.com/tv/v4/

This version change was made to support some significant internal changes that are transparent to users of our standard endpoints. From a client perspective, v3 and v4 are the same.

https://api.rentrak.com/tv/v3/

Adds a code to each warning. An example is shown below:

```
"warnings": [
  {
    "message": "Call sign 'WTWC2' does not match a station for requested dates.",
    "code": 110
  },
  {
    "message": "Call sign 'ZDRE' does not match a station for requested dates.",
```

```
      "code": 110
    }
  }
]
```

https://api.rentrak.com/tv/v2/

Returns the appropriate HTTP errors and call statuses. The status response field can be any of the following:

- account_inactive
- bad_request
- cancelled
- invalid_field_type
- invalid_field_value
- invalid_filter
- no_subscription
- processing
- success
- timeout
- unexpected_error

https://api.rentrak.com/tv/v1/

Returns a 200 regardless of a failure.

The following example shows an HTTP request with all headers including Authorization. It uses the following credentials:

```
ID: aaaabbbbccccddddeeeeffff

Secret: 00001111222233334444555
```

The signature is calculated on the exact value of the HTTP body including spaces and newlines. The HTTP body does not end in a newline character. The String-to-Sign for this request is the following:

```
/tv/v4/national_airing_views

Fri, 29 Jan 2016 20:35:00 GMT
```

```
{

 "group_by": ["day"

],

 "fields": ["day", "num_hours" ],

 "filters": [

  [ "range",

    "day",

    "2015-10-01",

    "2015-10-31"

  ]

 ]

}
```

The HTTP request (including the JSON request object) is the following:

```
POST /tv/v4/national_airing_views HTTP/1.1

Date: Fri, 30 Jan 2016 20:35:00 GMT

Host: api.rentrak.com

Authorization: RTK Aaaabbbbcccddddeeeeeffff:XtHfcMRLOBAfSTyZoExpmUwfSsw=

Content-Type: application/json; charset=utf-8

Content-Length: 164

{

 "group_by": ["day"],

 "fields": ["day", "num_hours" ],

 "filters": [

  [ "range",

    "day",
```

```
    "2015-10-01",

    "2015-10-31"

  ]

 ]

}
```

Global Settings

API settings that apply to all endpoints are described in this section.

Concurrent Request Limits

There are two types of limits, per client and per server. Each is described below:

Type	Limit	Description
Per Client	75	HTTP status 429 is returned when this limit is exceeded.
Per Server	70	HTTP status 503 is returned if the server has the maximum number of requests running on it.

Note: Comscore recommends handling these response codes when they are received and trying your request again.

Request Size

The request size limit is described below:

Type	Size	Description
Maximum	30 MB	The maximum request size is 30 megabytes.

Third Party Requests

The API allows you to make requests as a third party provider on behalf of other Comscore clients by using the as_client_id parameter. Set the as_client_id for the client you are using for the request and all of the subscription permissions will be applied for that client.

```
{
```

```
"as_client_id": "INSERT CLIENT ID",
"fields": [

    "qtr_hour",

    "market_no",

    "market_name",

    "station_call_sign",

    "rating"

  ],

  "filters": [

    [

      "eq",

      "day",

      "2015-09-12"

    ],

    [

      "in",

      "market_no",

      820

    ],

    [

      "in",

      "station_call_sign",

      "KATU"

    ]

  ],

  "group_by": [
```

```
      "market_no",

      "qtr_hour",

      "station_call_sign"

    ]

  }

}
```

Audience Measurement

This page provides an overview of Comscore's audience measurement methodology.

[Commercial Measurements](#) [Demographic Measurements](#) [DVR Measurements](#) [Household Measurements](#) [Reporting Status](#)

Commercial Measurements

Comscore matches its television viewing information with [Kantar Media Intelligence](#) commercial occurrence information to deliver precise commercial measurements at the national telecast level. The API supports these measurements for live and live+DVR viewing.

Average Commercial Audience

The average number of televisions tuning into all the telecast's national commercials. Average Commercial Audience is calculated by dividing the total seconds the commercials were viewed, both live and during the selected DVR bucket, by the total number of seconds that the commercials ran.

Average Commercial Rating

The percentage of television households in the nation that viewed the national commercials. Average Commercial Rating is calculated by dividing the Average Commercial Audience by the Household Universe Estimate.

Demographic Measurements

Comscore matches its television viewing information with [Epsilon](#) targeting demographic information to pinpoint audiences by a wide range of qualitative characteristics, from age/gender to hobbies and much more. The API supports demographic measurements for live viewing and live+DVR viewing for telecasts (local and national) and commercials (national only).

The API provides demographic measurements for the following groups:

- Age Range
- Education
- Race/Ethnicity
- Household Income

- Household Composition

You can use the [Metadata](#) endpoint to find a list of all available demographic segments.

Index

A measurement of the relative viewership of the demographic segment households compared to the viewership in all market households or national households.

If the index is greater than 100, the segment watched the programming at a higher rate than the market or the nation. For example, an index of 120 means that the average segment household watched 20% more of the programming than the average household. If the index is less than 100, the segment watched at a lesser rate.

Average Audience

The Average Audience among only the segment households in the selected market or nation.

*Average Audience = (Household Rating * Index * Segment HH UE) / 100*

Rating

The Rating among only the segment households in the selected market or nation.

*Rating = (Average Audience / Segment HH UE) * 100*

DVR Measurements

The API also supports time-shifted viewing and can display Digital Video Recorder (DVR) measurements to display and a number of days from original airing that the DVR playback occurred. Be aware that DVR reporting becomes final after live reporting. The available DVR measurements are:

- **DVR:** Measurements for DVR viewing only.
- **Live + DVR:** Measurements for Live and DVR viewing combined.

Streams

If you select Same Day for the DVR time shift, the DVR calculations are based on DVR viewing of telecasts that occur on the same broadcast day as the live telecast. For Eastern and Pacific time zones, the broadcast day runs from 6:00 AM to 6:00 AM. For Central and Mountain time zones, the broadcast day runs from 5:00 AM to 5:00 AM.

If you select n Day(s), calculations are based on viewing within n * 24 hours of the original airing. For example, you record a show that runs from 8:00 PM to 9:00 PM. If you replay the program at 8:00 PM the next day, the viewing occurs within one day. If you replay the program at 8:01 PM, the viewing occurs within two days.

- **Same Day:** Same broadcast day as the live telecast.
- **1 Day:** Playback occurs within 24 hours of the telecast's live start time.
- **2 Days:** Playback occurs within 48 hours of the telecast's live start time.
- **3 Days:** Playback occurs within 72 hours of the telecast's live start time.
- **7 Days:** Playback occurs within 168 hours of the telecast's live start time.
- **15 Days:** Playback occurs within 360 hours of the telecast's live start time.

Rules

- Playback that occurs within 25 seconds of the live airing counts as live viewing. Playback occurring 25 seconds or more after live counts as DVR.
- As with live viewing, playback of less than one minute is ignored.
- Only normal speed playback counts as DVR viewing. Fast forward, pause, rewind, and so forth are excluded.

Household Measurements

Household measurements are based on tune data reported by Set-Top Boxes (STB). Tunes are based on telecasts and occur when an STB remains tuned to a single telecast for one minute or longer. Tunes of less than one minute are considered insignificant channel surfing and ignored.

Once tune data has been collected and schedule data has been overlaid, audience measurements are aggregated for various entities (telecast, series, network) across various time frames (hour, day, daypart during a given month).

Total Hours Viewed

The total number of hours the entity was viewed. It is aggregated from all tunes of the entity during the selected time frame. For a household with multiple STBs, we capture all hours viewed within the household, including STBs that watch the same programs and STBs that watch different programs.

Average Audience

The average number of televisions tuned into an entity throughout the selected time frame. It is calculated by dividing the Total Hours Viewed by the length of the Time Frame (in hours).

Average Audience = Total Hours Viewed / Time Frame in Hours

An equivalent calculation for Average Audience is:

*Average Audience = Rating * Household Universe Estimate*

With broadcast networks, a telecast run time can vary across markets due to local sporting events and other events that run longer or shorter than originally scheduled. To account for this, the national Average Audience is calculated using a weighted average run time for all markets. The weighted average run time is calculated by weighting the telecast's run time by the market's average audience then averaging the weighted telecast run times for all markets.

Rating

The percentage of all television households in a selected market (or the nation) that viewed an entity. It is calculated by dividing Average Audience for the entity by the Household Universe Estimate (HH UE) for the selected market (or nation) and multiplying the result by 100.

*Rating = (Average Audience [entity] / HH UE) * 100*

An equivalent calculation for Rating is:

*Rating = Share * HUT %*

Households Using Television (HUT)

The gross percentage of households in the selected market (or the nation) watching televisions during the selected time frame. It is calculated by summing the Ratings of all programming during the time frame.

Share

The Average Audience of an entity, relative to Average Audience across all entities, during the selected time frame. It is calculated by dividing the entity's Rating by the HUT during the same time frame and multiplying the result by 100.

*Share = (Rating / HUT) * 100*

An equivalent calculation of Share is:

*Share = (Average Audience [entity] / Average Audience [all programming]) * 100*

Average % Viewed

The percentage of a telecast or series run time that an average viewer watched. It is calculated by dividing the actual Average Audience by the number of actual STBs tuned into a telecast or series and multiplying the result by 100.

*Average % Viewed = (actual Average Audience / actual STBs) * 100*

Reporting Status
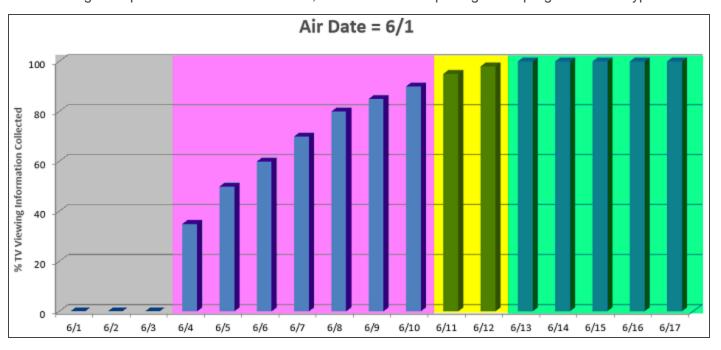
For any given air date, it takes several days for Comscore to receive and process all the television viewing from our operator partners. As we process the viewing, API reporting for the air date progresses through three stages that we call:

- Incomplete
- Initial
- Final

The API will automatically include all Incomplete, Initial, and Final data unless the user specifies otherwise. To EXCLUDE non-final data, the user may include the request parameter "include_non_final_data": false. To specifically INCLUDE non-final data, the user should include the request parameter "include_non_final_data": true.

Reporting Status for a Typical Air Date

The following example for June 1 shows how live, household-level reporting status progresses for a typical air date:

- **No Reporting:** Reporting for June 1 becomes available about three days after the air date, 6/4 in the example.
- **Incomplete Reporting:** Reporting is incomplete and will fluctuate 6/4 through 6/10 as Comscore continues to receive and process June 1 viewing.
- **Initial Reporting:** On 6/11 and 6/12, you can run reports for June 1, but expect some variance with the final, locked reporting.
- **Final Reporting:** June 1 reporting is final and locked on 6/17.

Note: This example shows TV viewing collection of a typical air date. The actual collection rate may vary due to large volume, maintenance windows, and other factors.

DVR, Household-Level Reporting

Using the June 1st air date example, DVR reporting typically becomes final as follows:

Bucket	Becomes Final In *	June 1 Viewing Becomes Final On *
Same Day	16 days	06/16
1 Day	17 days	06/17
2 Days	18 days	06/18
3 Days	19 days	06/19
7 Days	23 days	06/23
15 Days	31 days	07/01

* Assuming that today's date is three days after Live Tune Data.

It typically takes three days for an air date's processing to begin. The actual time may vary due to large volume, maintenance windows, and other factors.

Summary

- **No Reporting:** No data is available, typically no data will populate during days 1 - 2 from the original air date.
- **Incomplete Reporting:** Only partial data is available, typically populates during days 3 - 9 from the original air date.
- **Initial Reporting:** Non-final data is available, typically populates during days 10 - 11 from original air date.

- **Final Reporting:** Final data is available, typically populates on day 12 from the original air date.

Authentication

The API requires that the application calling the API be authenticated over HTTPS. Your credentials include:

- A non-secret client ID that identifies the client in each request.
- A shared secret key, paired with the ID, which is used to sign each request.

Note: This should be treated as sensitive data, like a password. Do not transmit the secret key in any messages to Comscore or to third parties. Please do not include the secret key in logs of the operation of your software, to avoid inadvertent transmission.

Each HTTP request made to the API must contain a Date header formatted according to RFC 2616, and the provided timestamp must be no more than 15 minutes before or after the time according to the server. It must also contain an Authorization header as follows:

```
Authorization: RTK <ID>:<SIGNATURE>
```

Where <ID> represents the non-secret client ID, and <SIGNATURE> is calculated using HMAC-SHA1 with your secret key to sign a message derived from the request in the following order:

- HTTP Path
- Newline (Unicode U+000A)
- Date Header Value
- Newline
- Request Body

Note: See Constructing an API Request for an HTTP request and response example.

Fields

A field can be requested by specifying the field name or by defining a field object. A field object can have the following properties:

Name	Definition	Syntax Example	Output Example

alias	An alternate name for a field.	`"fields": [`
		
		`"avg_aud",`
		
		`"demo_no": 3623,`
		
		`"alias": "Avg Aud A18-49"`
			`"result columns": [`
			
			`"rating",`
			
			`"Avg Aud A18-49",`
			
			`"share"`

decimal_precision	The number of places included in a decimal number. Default decimal precision is 4 places and the maximum allowed is 4 places.	`"field": [`
		
		`"avg_aud",`
		
		`"demo_no": 3623,`
		
		`"decimal_pre-cision": "2"`
			35928.53

demo_no	The unique identification number assigned to a demographic segment.	`"field": [`
		
		`"avg_aud",`
		
		`"demo_no": 3623`
			35928.5268

field	A user-defined name for a field.	`"fields": [`
		
		`"network_name",`
		
		`"network_no",`
		
		`"avg_aud"`
			—

scale	No scale factor is applied by default. The scale factor specifies how large numbers within data sets display.	Example 1: `{field: "avg_aud",`	Example 1: 4260899.682

	They must be a positive power of ten in the range 1e-06 to 100000000. The number of decimal places adjust according to the scale when decimal precision is not specified.	`"scale":1}`	
		Example 2: `{field: "avg_aud", "scale":1000}`	Example 2: 42608.99682
		Example 3: `{"field": "avg_aud", "scale": 0.1}`	Example 3: 42608996.82
stream	The type of stream and designated time period.	`{"field": "avg_aud", "stream":"dvr_ within_24_hours" }`	109664.4154

Request Example

The following sample request includes three types of field objects.

```
{

"group_by": [ "network_no" ],

"fields": [ "network_no", "rating", "share",

{

"demo_no": 652,

"alias": "Rating A25-54",

"field": "rating"

},

{

"demo_no": 652,

"alias": "Share A25-54",
```

```
  "field": "share"

  }

 ],

 "filters": [

 [ "range", "day", "2013-09-30", "2013-10-27" ],

 [ "in", "network_no", 3, 4, 5 ]

 }
```

Filters

Each filter is an array with the following elements, in order:

1. The string name of the filter.
2. The string name of the field to apply the filter.
3. The remaining arguments to the filter. The values of the arguments must be valid values for the field, and the number of arguments must be valid for the comparison.

The following filters are supported. Note that the number of arguments in this table is in addition to the filter name and field.

Name	Definition	# Arguments	Example
any	any value	0	[
			"or",
			[
			"network_no",
			"series_no"
			],
			[
			[
			"any"
			],
			["eq",
			1845021
			]
			],
			[
			[
			"eq",

```
          33

        ],

        [

        "eq",

        2368319

        ]

      ]

    ]
```

eq	equals	exactly 1	["eq", "network_no", 5]
gt	greater than	exactly 1	["gt", "rating", "5.0"]
gte	greater than or equal to	exactly 1	["gte", "time", "17:00"]
in	set inclusion	1 or more	["in", "station_no", 4301, 241, 2681]
lt	less than	exactly 1	["lt", "avg_aud", 100000]
lte	less than or equal to	exactly 1	["lte", "day", "2016-07-31"]
neq	not equal to	exactly 1	["neq", "day", "2015-12-25"]
or		1 or more	["or", "day", ["eq", "2016-01-01"], ["gt", "2016-02-01"]] ["or", ["day", "network_no"], [["eq", "2016-01-01"], ["in", 3, 4, 5]] [["gt", "2016-02-01"], ["eq", 3]]]
range	date range	2	["eq", "day", "2016-01-01"] ["gt", "day", "2016-02-01"]

Asynchronous Mode

An API has two modes, synchronous and asynchronous. A request is synchronous If there is no timeout element in the body of a request. An asynchronous request includes the timeout element.

```
{

  "fields": [

  …

],

  "filters": [

  …

],

  "group_by": [

  …

]

  "timeout": 120

}
```

In synchronous mode, the API keeps the client connection open for up to 300 seconds. If data is not available within that time frame, the API cancels the request, closes the connection, and returns the HTTP Status Code 408 - Request Timeout in the response.

```
{

  "status": "timeout",

  "api_time": 26,

  "api_request_id": "iIXtdPA72mo9",

  "message": "The request timed out waiting for a response",

  "api_version": "a7003796"

}
```

In asynchronous mode, the API also keeps the client connection open for up to timeout seconds. If data is not available within that time frame, the API switches to asynchronous mode, closes the connection and returns the HTTP Status Code 200 in the response.

```
{

  "api_request_id": "O9tiRO8iHAUI",

  "api_time": 120,

  "api_version": "a7003796",

  "next_page_token": "3w66dQp4wq5Uwcyy0YQvEPQc8qZUGfyT",

  "result_columns": [

    <same columns as in the request>

],

  "result_rows": [],

  "status": "processing"

}
```

If timeout is set to a special value 0, (i.e. "timeout": 0), the API immediately switches to asynchronous mode with no synchronous time frame. Then, in order to receive the results, the client keeps polling the API every few seconds by sending a request to the **/tv/v4/retrieve_dataset** endpoint.

```
{

  "token": "3w66dQp4wq5Uwcyy0YQvEPQc8qZUGfyT",

  "timeout": 10

}
```

The token parameter must be set to next_page_token from the initial request above and the timeout parameter needs to be set to a new synchronous waiting period (in seconds).

As soon as data is ready, the API returns a regular response (successful or not). If there are no extra pages, the next page token is set to null in response ("next_page_token": null), otherwise the value from the next_page_token needs to be used in subsequent calls to the retrieve_dataset endpoint to retrieve the remaining pages.

Default page size is 10000 rows. It can be overridden by user by specifying "page_size": 1000 in the request body. page_size must be in the [1, 99999] interval.

Note: See the C# and Python code samples for more information.

DVR and Ad Streams

To add DVR and ad streams to an API request, you must create a separate object in the API request to specify the field and appropriate stream.

```
{
 "field": <metric>,
 "stream": <stream name>
 }
```

For example, to find the average audience for Digital Video Recorder (DVR) viewing that occurred within 24 hours that a telecast aired, you would use the following:

```
{
 "field": "avg_aud",
 "stream": "dvr_within_24_hours"
 }
```

DVR and On Demand Stream Names

DVR measurements are for DVR viewing only. Live + DVR measurements are for live and DVR viewing combined.

If you select dvr_within_same_day for the DVR stream, the DVR calculations are based on DVR viewing of telecasts that occur on the same broadcast day as the live telecast. For the Eastern, Pacific, Alaska, and Hawaii time zones, the broadcast day runs from 6:00 AM to 6:00 AM. For the Central and Mountain time zones, the broadcast day runs from 5:00 AM to 5:00 AM.

If you select dvr_within_n_hours, calculations are based on viewing within n hours of the original airing. For example, you record a show that runs from 8:00 PM to 9:00 PM. If you replay the program at 8:00 PM the next day, the viewing occurs within 24 hours. If you replay the program at 8:01 PM, the viewing occurs within 48 hours.

Name	Description
dvr_within_same_day	Playback occurs within the same broadcast day as the live telecast.

dvr_within_24_hours	Playback occurs within 24 hours of the telecast's live start time.
dvr_within_48_hours	Playback occurs within 48 hours of the telecast's live start time.
dvr_within_72_hours	Playback occurs within 72 hours of the telecast's live start time.
dvr_within_168_hours	Playback occurs within 168 hours of the telecast's live start time.
dvr_within_360_hours	Playback occurs within 360 hours of the telecast's live start time.
live_plus_dvr_within_same_day	Live and DVR playback within the same broadcast day.
live_plus_dvr_within_24_hours	Live and DVR playback within 24 hours of the telecast's live start time.
live_plus_dvr_within_48_hours	Live and DVR playback within 48 hours of the telecast's live start time.
live_plus_dvr_within_72_hours	Live and DVR playback within 72 hours of the telecast's live start time.
live_plus_dvr_within_168_hours	Live and DVR playback within 168 hours of the telecast's live start time.
live_plus_dvr_within_360_hours	Live and DVR playback within 360 hours of the telecast's live start time.
live_plus_dvr_vod_within_same_day	Live, DVR, and VOD playback within the same broadcast day.
live_plus_dvr_vod_within_24_hours	Live, DVR, and VOD playback within 24 hours of the telecast's live start time.
live_plus_dvr_vod_within_48_hours	Live, DVR, and VOD playback within 48 hours of the telecast's live start time.
live_plus_dvr_vod_within_72_hours	Live, DVR, and VOD playback within 72 hours of the telecast's live start time.
live_plus_dvr_vod_within_168_hours	Live, DVR, and VOD playback within 168 hours of the telecast's live start time.
live_plus_dvr_vod_within_360_hours	Live, DVR, and VOD playback within 360 hours of the telecast's live start time.

Ad Stream Names

Name	Description
ad_live	Live ad viewing only.
ad_live_plus_dvr_within_same_day -or- c0	Live and DVR ad viewing within the same broadcast day.
ad_live_plus_dvr_within_24_hours -or- c1	Live and DVR ad viewing within 24 hours of the telecast's live start time.
ad_live_plus_dvr_within_48_hours -or- c2	Live and DVR ad viewing within 48 hours of the telecast's live start time.

ad_live_plus_dvr_within_72_hours -or- c3	Live and DVR ad viewing within 72 hours of the telecast's live start time.
ad_live_plus_dvr_within_168_hours -or- c7	Live and DVR ad viewing within 168 hours of the telecast's live start time.
ad_live_plus_dvr_within_360_hours -or- c15	Live and DVR ad viewing within 360 hours of the telecast's live start time.
ad_live_plus_dvr_vod_within_same_day	Live, DVR, and VOD playback within the same broadcast day.
ad_live_plus_dvr_vod_within_24_hours	Live, DVR, and VOD playback within 24 hours of the telecast's live start time.
ad_live_plus_dvr_vod_within_48_hours	Live, DVR, and VOD playback within 48 hours of the telecast's live start time.
ad_live_plus_dvr_vod_within_72_hours	Live, DVR, and VOD playback within 72 hours of the telecast's live start time.
ad_live_plus_dvr_vod_within_168_hours	Live, DVR, and VOD playback within 168 hours of the telecast's live start time.
ad_live_plus_dvr_vod_within_360_hours	Live, DVR, and VOD playback within 360 hours of the telecast's live start time.

Supported Streams

The supported streams for different types of endpoints are listed in the following table:

Endpoint	Stream	Supports HH Fields	Supports Demo Fields
national_airing_views	live	X	X
national_airing_views	dvr_*	X	
national_airing_views	live_plus_dvr_*	X	X
national_airing_views	ad_live	X	X
national_airing_views	ad_live_plus_dvr_*	X	X
national_airing_views	ad_live_plus_dvr_vod_*	X	X
local_airing_views	live	X	X
local_airing_views	dvr_*	X	
local_airing_views	live_plus_dvr_*	X	
local_airing_views	ad_live		
local_airing_views	ad_live_plus_dvr_*		

local_airing_views	ad_live_plus_dvr_vod_*		
local_avail_views	live	X	X
local_avail_views	dvr_*		
local_avail_views	live_plus_dvr_*		
local_avail_views	ad_live		
local_avail_views	ad_live_plus_dvr_*		
local_avail_views	ad_live_plus_dvr_vod_*		
local_time_views	live		
local_time_views	dvr_*		
local_time_views	live_plus_dvr_*		
local_time_views	ad_live		
local_time_views	ad_live_plus_dvr_*		
local_time_views	ad_live_plus_dvr_vod_*		

JSON Protocol

JavaScript Object Notation (JSON) is a common language-independent data format that provides a simple text representation of arbitrary data structures.

Note: See json.org for more information.

Request Object

The following keys can be included in request objects:

Name	Type	R / O	Description	Endpoints
as_client_id	String	Optional	Client identification code for making third party requests.	National Airing Views Local Airing Views Local Avail Views Local Time Views
avails	List of JSON Objects	Required	Defines sets of quarter hours used in the main query. This parameter is described in more detail below.	Local Avail Views
dominant_series	Boolean	Optional	If true, turns on dominant programming logic (if a single series makes up 80% or more of the avail, the response filters to that series only). Defaults to false.	Local Avail Views
fields	Array of String	Required	The fields to include in the result dataset. Metrics used in this key must have a single value for all avails requested.	National Airing Views Local Airing Views Local Avail Views Local Time Views
filters	Array of String	Required	A conjunctive set of filters to apply to request.	National

					Airing Views
					Local Airing Views
					Local Avail Views
					Local Time Views
group_by	Array of String	Required	The keys for grouping results. The response dataset will contain one row for each combination of values of the keys in group_by.		National Airing Views
					Local Airing Views
					Local Avail Views
					Local Time Views
hut_dates	Array of String	Optional	Used in conjunction with the use_hut_dates flag to specify up to four date ranges.		Local Avail Views
include_non_final_data	Boolean	Optional	Indicates whether to include initial data in the response.		National Airing Views
					Local Airing Views
					Local Avail Views
					Local Time Views

page_size	Integer	Optional	The number of records per page. The default is 10000.	National Airing Views Local Airing Views Local Avail Views Local Time Views
pass_ through_ fields	Array of String	Optional	Used to specify custom fields in the request object. These custom fields must not conflict with existing, supported fields. Each avail must specify a value for these fields in the pass_through_values key. The API does not support filtering on these fields.	Local Avail Views
pass_ through_ values	Array of String	Optional	Corresponds to the pass_through_fields key to specify custom fields.	Local Avail Views
start_of_ day	String	Required	Defines the start of the broadcast day. Supports any whole hour from 12AM ("00:00" or "0:00") to 8AM ("08:00" or "8:00"). Defaults to 6AM. Quarter hour ranges specified in the filters must not cross the start_of_day value.	National Airing Views Local Airing Views Local Avail Views Local Time Views
use_hut_ dates	Boolean	Optional	When true, this key will calculate the avail using specified HUT dates. Currently, this supports rating.	Local Avail Views

Response Object

The JSON response object includes the following keys:

Name	When	Type	Description
api_request_id	Always	String	A unique request identifier.
api_time	Always	Integer	The elapsed time for the API request.
disclosures	Conditional	String	A subscriber notification about events or changes that affected reporting for the selected date range, market, and/or network.
final_date	Always	Date	The date in the system that reporting is locked.
message	On Failure	String	An error message. Additional keys may be included that are unique to the type of error and specific to each endpoint.
result_columns	On Success	Array	The column names of the result dataset.
result_rows	On Success	Array	The rows (each an array of values) of the result dataset that correspond to column names.
status	Always	String	A machine readable code equal to "success" if the request succeeded or a specific error code identifying the type of error.
warnings	Conditional	String	An error message generated when part of a request cannot be fulfilled.

Status Codes

The JSON response status codes are listed below:

Status Code	Description
account_inactive	The user account is not currently active.
bad_request	The request failed basic validation (a required key is missing or is the wrong type).
canceled	The request was canceled.
invalid_field_type	The request includes an incorrect field type.
invalid_field_value	The request includes an incorrect value has been included within a field in the request.
invalid_filter	The request contains the wrong number of arguments for a filter or a filter cannot be applied to the field.
no_subscription	The user account does not currently have access or does not have a subscription number set up.
processing	The request is currently in progress.
success	The request process was successful.
timeout	The request timed out and was not successful.
too_many_requests	The Comscore API is busy processing requests. Try again in a few minutes.
too_many_requests_for_client	The request queue is full. Wait until some of the submitted requests are finished before sending a new one.
too_many_requests_for_host	The Comscore API is busy processing requests. Try again in a few minutes.
unexpected_error	An error occurred while processing the request.

Note: The JSON response object always contains a status code and sometimes additional keys depending on the error.

HTTP Protocol

The API service conforms to the HTTP/1.1 specification with the following exceptions:

- Many headers are ignored because they have no meaning in the API (e.g., Cookies).
- All headers relating to caching are currently unsupported (Cache-Control, If-Match, If-Modified-Since, If-None-Match, If-Range, If-Unmodified-Since).
- The API does not include ETag or Expires headers in the response.
- The Content-MD5 header is currently unsupported.

If the request conforms to the HTTP protocol as specified below, the JSON object is processed by the endpoint. If not, an HTTP error occurs with a non-200 status code. Each endpoint has additional requirements on the JSON request. An error in the JSON request results in an HTTP 200 response with a JSON object that contains the error message.

HTTP Request

Requests for data are made using the POST method. The HTTP body must be a JSON object. The following headers are required:

Name	Description	Example
Authorization	Authentication credentials (Client ID and signature).	Authorization: RTK aaaabbbbccccddddeeeeffff: XtHfcMRLOBAfSTyZoExpmUwfSsw=
Content-Length	Request body length (integer).	Content-Length: 164
Content-Type	Request body MIME type (either application/json; charset=UTF-8 or application/json).	Content-Type: application/json; charset=utf-8
Date	Request timestamp.	Date: Thu, 30 Jan 2015 20:35:00 GMT

HTTP Response

An API response is usually one of the following:

Name	Status Code	Description
Success	200	If the request conforms to the HTTP specification and requirements for

the particular API endpoint, then the response will obey the following properties:

- The Content-Type header is application/json; charset=UTF-8.
- The response \body is a [JSON object](#).

Errors	-200	An HTTP error response occurs when the HTTP request does not conform to either the HTTP/1.1 specification or the particular requirements listed in HTTP Request above. Requests that result in an HTTP error response include the following: - The endpoint does not exist. - The HTTP method is not in the set of methods allowed by the HTTP/1.1 specification. - The HTTP method is valid but not supported for the current endpoint. - The value of an HTTP header (e.g., Content-Type, Content-Encoding, Accept, Accept-Encoding) is not supported by the current endpoint. - The request body is malformed (e.g., when the Content-Type is JSON and the body is not syntactically valid JSON, or when the body is JSON but not a JSON object). In all such cases, the HTTP response will obey the following properties: - The status code will be something other than 200 and conform to the [HTTP/1.1 specification](#). For example, on request timeout, the HTTP status code will be 408. - The Content-Type is text/plain; charset=UTF-8. - The response body is a human readable plaintext message describing the error.

Endpoints

Comscore offers access to the following endpoints through this API:

[Local Airing Views](#)

[Local Avail Views](#)

[Local Time Views](#)

[National Airing Views](#)

[National Time Views](#)

[Metadata](#)

Global Settings

API settings that apply to all endpoints are described in this section.

Concurrent Request Limits

There are two types of limits, per client and per server. Each is described below:

Type	Limit	Description
Per Client	75	HTTP status 429 is returned when this limit is exceeded.
Per Server	70	HTTP status 503 is returned if the server has the maximum number of requests running on it.

Note: Comscore recommends handling these response codes when they are received and trying your request again.

Request Size

The request size limit is described below:
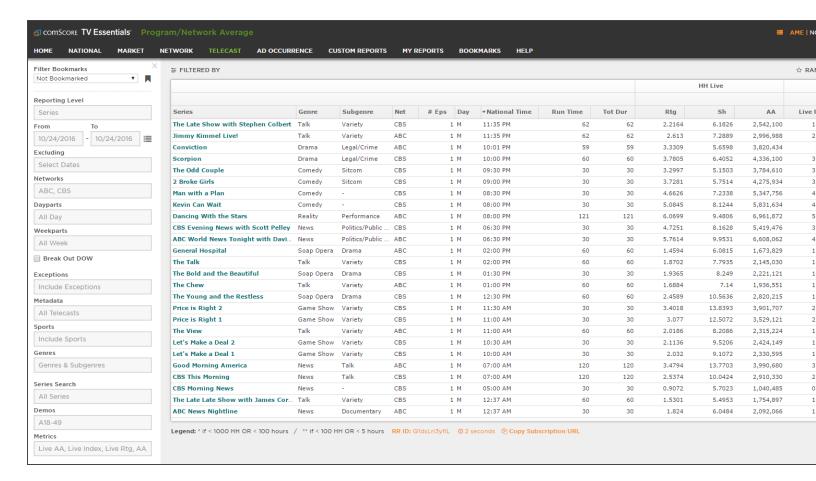
Type	Size	Description
Maximum	30 MB	The maximum request size is 30 megabytes.

National Airing Views

The National Airing Views endpoint supports requests for national network, series, or episode-oriented data. The endpoint retrieves national household metrics for titles included in national programming only. Data is summarized by airing and program duration.

An example of this API data as presented in TV Essentials is shown below:
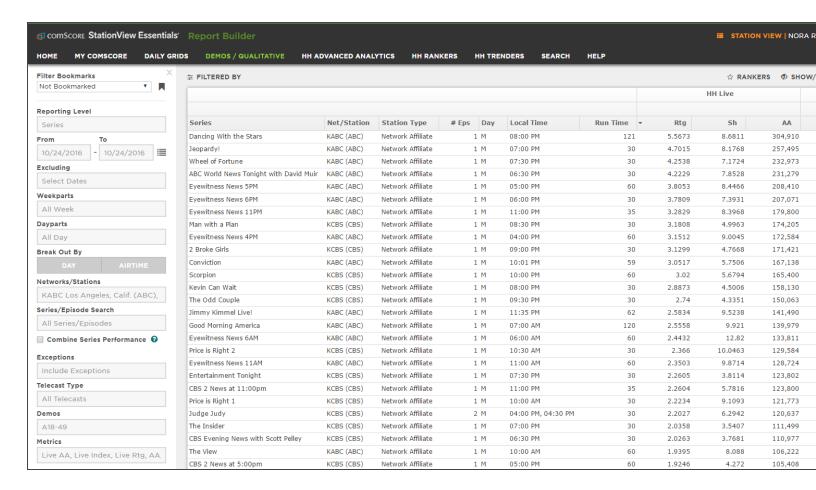
See [National Airing Views Endpoint](#) for more information.

Local Airing Views

The Local Airing Views endpoint supports requests for local broadcast station, cable network, series, or episode-oriented data. The endpoint retrieves metrics for titles included in local programming. Data is summarized by market, airing and program duration.

An example of this API data as presented in [StationView Essentials](#) is shown below:

HOME   MY COMSCORE   DAILY GRIDS   DEMOS / QUALITATIVE   HH ADVANCED ANALYTICS   HH RANKERS   HH TRENDERS   SEARCH   HELP

Filter Bookmarks
Not Bookmarked

Reporting Level
Series

From   **To**
10/24/2016   -   10/24/2016

Excluding
Select Dates

Weekparts
All Week

Dayparts
All Day

Break Out By
DAY   AIRTIME

Networks/Stations
KABC Los Angeles, Calif. (ABC),

Series/Episode Search
All Series/Episodes

☐ Combine Series Performance ?

Exceptions
Include Exceptions

Telecast Type
All Telecasts

Demos
A18-49

Metrics
Live AA, Live Index, Live Rtg, AA

≡ FILTERED BY   ☆ RANKERS   ◑ SHOW/

								HH Live		
Series	Net/Station	Station Type	# Eps	Day	Local Time	Run Time ▼	Rtg	Sh	AA
Dancing With the Stars	KABC (ABC)	Network Affiliate	1 M	08:00 PM	121	5.5673	8.6811	304,910
Jeopardy!	KABC (ABC)	Network Affiliate	1 M	07:00 PM	30	4.7015	8.1768	257,495
Wheel of Fortune	KABC (ABC)	Network Affiliate	1 M	07:30 PM	30	4.2538	7.1724	232,973
ABC World News Tonight with David Muir	KABC (ABC)	Network Affiliate	1 M	06:30 PM	30	4.2229	7.8528	231,279
Eyewitness News 5PM	KABC (ABC)	Network Affiliate	1 M	05:00 PM	60	3.8053	8.4466	208,410
Eyewitness News 6PM	KABC (ABC)	Network Affiliate	1 M	06:00 PM	30	3.7809	7.3931	207,071
Eyewitness News 11PM	KABC (ABC)	Network Affiliate	1 M	11:00 PM	35	3.2829	8.3968	179,800
Man with a Plan	KCBS (CBS)	Network Affiliate	1 M	08:30 PM	30	3.1808	4.9963	174,205
Eyewitness News 4PM	KABC (ABC)	Network Affiliate	1 M	04:00 PM	60	3.1512	9.0045	172,584
2 Broke Girls	KCBS (CBS)	Network Affiliate	1 M	09:00 PM	30	3.1299	4.7668	171,421
Conviction	KABC (ABC)	Network Affiliate	1 M	10:01 PM	59	3.0517	5.7506	167,138
Scorpion	KCBS (CBS)	Network Affiliate	1 M	10:00 PM	60	3.02	5.6794	165,400
Kevin Can Wait	KCBS (CBS)	Network Affiliate	1 M	08:00 PM	30	2.8873	4.5006	158,130
The Odd Couple	KCBS (CBS)	Network Affiliate	1 M	09:30 PM	30	2.74	4.3351	150,063
Jimmy Kimmel Live!	KABC (ABC)	Network Affiliate	1 M	11:35 PM	62	2.5834	9.5238	141,490
Good Morning America	KABC (ABC)	Network Affiliate	1 M	07:00 AM	120	2.5558	9.921	139,979
Eyewitness News 6AM	KABC (ABC)	Network Affiliate	1 M	06:00 AM	60	2.4432	12.82	133,811
Price is Right 2	KCBS (CBS)	Network Affiliate	1 M	10:30 AM	30	2.366	10.0463	129,584
Eyewitness News 11AM	KABC (ABC)	Network Affiliate	1 M	11:00 AM	60	2.3503	9.8714	128,724
Entertainment Tonight	KCBS (CBS)	Network Affiliate	1 M	07:30 PM	30	2.2605	3.8114	123,802
CBS 2 News at 11:00pm	KCBS (CBS)	Network Affiliate	1 M	11:00 PM	35	2.2604	5.7816	123,800
Price is Right 1	KCBS (CBS)	Network Affiliate	1 M	10:00 AM	30	2.2234	9.1093	121,773
Judge Judy	KCBS (CBS)	Network Affiliate	2 M	04:00 PM, 04:30 PM	30	2.2027	6.2942	120,637
The Insider	KCBS (CBS)	Network Affiliate	1 M	07:00 PM	30	2.0358	3.5407	111,499
CBS Evening News with Scott Pelley	KCBS (CBS)	Network Affiliate	1 M	06:30 PM	30	2.0263	3.7681	110,977
The View	KABC (ABC)	Network Affiliate	1 M	10:00 AM	60	1.9395	8.088	106,222
CBS 2 News at 5:00pm	KCBS (CBS)	Network Affiliate	1 M	05:00 PM	60	1.9246	4.272	105,408

See Local Airing Views Endpoint for more information.

Local Time Views

The Local Time Views endpoint supports requests for local broadcast station and cable network viewership data broken down in 15 minute increments. This endpoint can be used to build exact time based daypart metrics that are independent from any program start or end times. Users may also see how viewership trends throughout an entire broadcast day, with flexibility to customize the start of day parameters.

An example of this API data as presented in StationView Essentials is shown below:

comSCORE. StationView Essentials®   STATION VIEW   NATIONAL ▾

HOME | MY COMSCORE | DAILY GRIDS | DEMOS / QUALITATIVE | HH ADVANCED ANALYTICS | HH RANKERS | HH TRENDERS | SEARCH | HELP

Demo Rating Grid / Single Market (DAILY FROM 10/24/16 TO 10/24/16 ALL WEEK)

Filtered by: 3a-3a Broadcast Day (3:00AM – 3:00AM), KCBS Los Angeles, Calif. (CBS), KABC Los Angeles, Calif. (ABC), Live, HH Live + DVR

Notes for your station show up highlighted in the grid below. Click here to add a note.

SINGLE MARKET | MULTI-MARKET

Range ▾ | Day Range ▾ | 📅 From 10/24/2016 | To 10/24/2016 | All Week ▾ | 3a-3a Broadcast Day (3:00AM – 3:00AM) ⊞ | Excluding [ ] | 📅 | GO

A18-49 ⊞ | KCBS Los Angeles, Calif. (CBS)... ⊞ | HH Live + DVR | Live ▾

HH: ☑ Tlcsts ☐ Notes ☑ QH Rtg ☐ QH Sh ☑ QH AA   Demo: ☑ QH Rtg ☐ QH Sh ☑ QH AA ☐ TP Rtg ☐ TP Sh   **EXPORT DAYPARTS**   👁 SHOW/HIDE

		KABC (ABC)						KCBS (CBS)				
				HH (Live)		Age Range A18-49 (Live)				HH (Live)		Age Range A18-49 (Live)	
		HH (Live) Tlcst Rtg | Sh | Hut	QH Rtg	QH AA	QH Rtg	QH AA	Tlcst Rtg | Sh | Hut	QH Rtg	QH AA	QH Rtg	QH AA
Local Time	HUT										
03:00 AM	9.30		0.50	27,114	0.45	16,392		0.43	23,513	0.38	13,937
03:15 AM	8.75		0.50	27,167	0.46	16,642		0.43	23,278	0.37	13,483
03:30 AM	8.35		0.53	29,078	0.48	17,400		0.39	21,501	0.34	12,224
03:45 AM	7.96		0.56	30,477	0.50	18,356		0.37	20,446	0.32	11,633
04:00 AM	8.22	America This Morning	0.58	31,763	0.53	19,106	CBS Morning News	0.37	20,399	0.32	11,756
04:15 AM	8.39	0.61 | 7.35 | 8.30	0.64	35,078	0.58	21,170	0.38 | 4.57 | 8.30	0.39	21,197	0.35	12,563
04:30 AM	8.79	Eyewitness News 4:30AM	0.78	42,877	0.71	25,682	CBS 2 News at 4:30am	0.46	25,086	0.41	14,922
04:45 AM	9.20	0.85 | 9.40 | 9.00	0.91	49,738	0.82	29,761	0.47 | 5.25 | 9.00	0.49	26,683	0.43	15,613
05:00 AM	10.20		1.10	60,422	1.00	36,408		0.57	31,463	0.50	18,160
05:15 AM	11.08	Eyewitness News 5AM	1.31	71,499	1.18	42,764	CBS 2 News at 5:00am	0.63	34,578	0.56	20,323
05:30 AM	12.21	1.39 | 11.89 | 11.70	1.50	82,342	1.36	49,408	0.67 | 5.77 | 11.70	0.71	39,044	0.64	23,264
05:45 AM	13.32		1.66	90,644	1.50	54,668		0.78	42,724	0.71	25,756
06:00 AM	15.99		2.04	111,825	1.87	67,844		0.95	52,202	0.87	31,638
06:15 AM	18.09	Eyewitness News 6AM	2.36	129,214	2.16	78,714	CBS 2 News at 6:00am	1.09	59,706	1.00	36,238
06:30 AM	20.24	2.44 | 12.82 | 19.06	2.59	141,876	2.38	86,400	1.12 | 5.89 | 19.06	1.23	67,368	1.11	40,539
06:45 AM	21.90		2.78	152,329	2.54	92,486		1.22	66,744	1.09	39,716
07:00 AM	24.37		2.89	158,156	2.62	95,403		1.50	82,143	1.34	48,575
07:15 AM	25.56		2.86	156,691	2.61	94,929		1.52	83,044	1.35	48,913
07:30 AM	26.11		2.86	156,377	2.59	94,065		1.54	84,305	1.37	49,789
07:45 AM	26.09	Good Morning America	2.66	145,935	2.39	86,949	CBS This Morning	1.50	82,417	1.32	48,156
08:00 AM	26.44	2.56 | 9.92 | 25.76	2.56	140,364	2.29	83,340	1.46 | 5.67 | 25.76	1.49	81,806	1.30	47,142

See Local Time Views Endpoint for more information.

Finding National Airing Views

This example shows how to use the National Airing Views endpoint to find ratings of shows airing on NBC between November 5, 2015 and November 8, 2015.

#	Series Name	Rating
01	Dateline NBC	3.357
02	Countdown to Green	0.9547
03	Last Call With Carson Daly	0.9916
04	Days of Our Lives	1.784
05	Today (1)	0.4524
06	Today (1)	0.475
07	Today (3)	2.1374
08	Heroes Reborn	3.0889
09	NBC Nightly News	4.6383
10	Open House NYC	0.8393
11	Ruff-Ruff, Tweet & Dave	1.2974
12	The Tonight Show Starring Jimmy Fallon	2.7611
13	NASCAR XFINITY START	1.3481
14	Earth to Luna!	0.8132
15	Truth Be Told	2.2271
16	Astroblast!	0.9616
17	Today (1)	4.5941
18	Today (2)	2.9207
19	Mad Money	0.2922

20	Today (2)	2.9766
21	Saturday Night Live	3.3674
22	Clangers	0.8905
23	Premier League Goal Zone	0.7592
24	NBC Nightly News	6.6963
25	Open House NYC	0.7001
26	The Player	2.8525
27	The Tonight Show Starring Jimmy Fallon	2.7813
28	Grimm	2.5237
29	1st Look	1.2015
30	Late Night with Seth Meyers	1.4099
31	Saturday Night Live	5.5648
32	Undateable	2.6002
33	Today (1)	4.5708
34	Days of Our Lives	1.7785
35	Late Night with Seth Meyers	1.5312
36	Dateline NBC	3.2761
37	English Premier League Soccer	0.9908
38	Early Today	0.881
39	Mad Money	0.2974
40	1st Look	0.5061
41	NASCAR Xfinity Series	1.9725
42	Today (3)	2.1807

43	Today Weekend	3.2094
44	LazyTown	0.6361
45	Last Call With Carson Daly	1.0863
46	The Blacklist	4.2211

Request

```
{

  "group_by": [ "national_airdatetime", "series_no" ],

  "fields": [ "series_name", "rating" ],

    "filters": [

      [ "eq", "network_no", 5 ],

      [ "gte", "day", "2015-11-05" ],

      [ "lt", "day", "2015-11-08" ]

    ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      "Dateline NBC",

      3.357

    ],
```

```
[
  "Countdown to Green",
  0.9547
],
[
  "Last Call With Carson Daly",
  0.9916
],
[
  "Days of Our Lives",
  1.784
],
[
  "Today (1)",
  0.4524
],
[
  "Today (1)",
  0.475
],
[
  "Today (3)",
  2.1374
],
[
  "Heroes Reborn",
```

    3.0889

],

[

  "NBC Nightly News",

  4.6383

],

[

  "Open House NYC",

  0.8393

],

[

  "Ruff-Ruff, Tweet & Dave",

  1.2974

],

[

  "The Tonight Show Starring Jimmy Fallon",

  2.7611

],

[

  "NASCAR XFINITY START",

  1.3481

],

[

  "Earth to Luna!",

  0.8132

],

```
[
  "Truth Be Told",
  2.2271
],
[
  "Astroblast!",
  0.9616
],
[
  "Today (1)",
  4.5941
],
[
  "Today (2)",
  2.9207
],
[
  "Mad Money",
  0.2922
],
[
  "Today (2)",
  2.9766
],
[
  "Saturday Night Live",
```

      3.3674
    ],
    [
      "Clangers",
      0.8905
    ],
    [
      "Premier League Goal Zone",
      0.7592
    ],
    [
      "NBC Nightly News",
      6.6963
    ],
    [
      "Open House NYC",
      0.7001
    ],
    [
      "The Player",
      2.8525
    ],
    [
      "The Tonight Show Starring Jimmy Fallon",
      2.7813
    ],

```
  [
    "Grimm",
    2.5237
  ],
  [
    "1st Look",
    1.2015
  ],
  [
    "Late Night with Seth Meyers",
    1.4099
  ],
  [
    "Saturday Night Live",
    5.5648
  ],
  [
    "Undateable",
    2.6002
  ],
  [
    "Today (1)",
    4.5708
  ],
  [
    "Days of Our Lives",
```

      1.7785
    ],
    [
      "Late Night with Seth Meyers",
      1.5312
    ],
    [
      "Dateline NBC",
      3.2761
    ],
    [
      "English Premier League Soccer",
      0.9908
    ],
    [
      "Early Today",
      0.881
    ],
    [
      "Mad Money",
      0.2974
    ],
    [
      "1st Look",
      0.5061
    ],

```
    [
      "NASCAR Xfinity Series",
      1.9725
    ],
    [
      "Today (3)",
      2.1807
    ],
    [
      "Today Weekend",
       3.2094
    ],
    [
      "LazyTown",
      0.6361
    ],
    [
      "Last Call With Carson Daly",
      1.0863
    ],
    [
      "The Blacklist",
      4.2211
    ]
  ],
  "status": "success",
```

```
  "api_request_id": "ZTC6BbnL05vf",

  "api_time": 161,

  "final_date": "2015-12-18",

  "result_columns": [

    "series_name",

    "rating"

  ]

}
```

Fields

The following fields are available with the National Airing Views endpoint:

Name	Type	GroupBy	Filters	Description
approximate_start_time	Time	True	any, eq, in, neq, range	The estimated start time for a telecast. The format is HH:MM:SS (AM/PM).
calendar_day	Date	True	–	The calendar date of a telecast. The format is YYYY-MM-DD.
calendar_day_of_week	String	False	any, eq, in, neq	The calendar day of a telecast. For example, "wed".
calendar_month	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar month of a telecast.
calendar_quarter	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar quarter of a telecast.
calendar_week	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar week of a telecast.
calendar_year	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar year of a telecast.
day	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast date (with a 6:00 a.m. start) of a telecast. The format is YYYY-MM-DD.
day_of_week	String	False	any, eq, in, neq	The broadcast day of a telecast. For example, "tue".
days_of_week	Array of String	False	–	The broadcast days of a telecast. For example, "mon" and "thur".
distinct_special_flag_short_names	Array of String	False	–	A list of identification codes for telecasts.
distinct_start_times	Array of Time	True	–	A list of start times for telecasts. The format is HH:MM:SS (AM/PM).

eastern_air-datetime	Timestamp	True	any, eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast begins in the Eastern Standard Time (EST) zone. For example, "2014-01-01T08:12:00.000".
end_time	Time	True	any, eq, gt, gte, in, lt, lte, neq, range	The end time for a telecast. The format is HH:MM:SS (AM/PM).
episode_no	Integer	True	any, eq, in, neq	The chronological number assigned to an episode of a television series.
episode_title	String	False	any, eq, in, neq	The name of an episode of a television series.
half_hour_start_time	Time	True	any, eq, in, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00 or 30.
hour_start_time	Time	True	any, eq, in, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00.
is_local_news	Boolean	True	any, eq, in, neq	A flag that indicates if a telecast is local news-related.
is_national_news	Boolean	True	any, eq, in, neq	A flag that indicates if a telecast is national news-related.
is_new_airing	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is airing for the first time.
is_repeat_airing	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is a rerun.
is_season_finale	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the last for the current season.
is_season_premiere	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the first in a new season.
is_series_finale	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the last one ever.
is_series_premiere	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the first one ever.

is_special_airing	Boolean	True	any, eq, in, neq	A flag that indicates if a telecast falls into a unique or one time category.
month	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar month of a telecast. It must be the first day of the month. For example, "2016-08-01".
national_air-datetime	Timestamp	True	any, eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast begins nationwide. For example, "2016-01-01T08:12:00.000".
network_name	String	False	any, eq, in, neq	The name of a broadcast or cable network. For example, "Game Show Network".
network_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a broadcast or cable network. For example, "371" is the code for the Game Show Network.
network_short_name	String	False	any, eq, in, neq	An abbreviation or acronym for the name of a network. For example, "GSN" is the short name for the Game Show Network.
network_type	String	False	any, eq, in, neq	The network category. This is either "Broadcast" or "Cable".
qtr_hour_start_time	Time	True	any, eq, in, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00, 15, 30, or 45.
quarter	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar quarter of a telecast. It must be the first day of January, April, July, or October. For example, "2016-07-01".
series_genre	String	False	—	The primary category assigned to a television series. For example, "Comedy".
series_genre_no	Integer	False	any, eq, in, neq	The unique identification number for the genre. For example, "3".
series_name	String	False	any, eq, in, neq	The title of a television series. For example, "The Big Bang Theory".
series_name_15	String	False	any, eq, in, neq	A shortened version of the television series title. For

				example, "Big Bang Theory".
series_name_or_various	String	False	–	Lists the title of a television series or "various" if the title is not available.
series_names	Array of String	False	–	A list of television series.
series_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television series. For example, "2291199".
series_subgenre	String	False	–	The secondary category assigned to a television series. For example, "Sitcom".
series_subgenre_no	Integer	False	any, eq, in, neq	The unique identification number for the subgenre. For example, "46".
start_time	Time	True	any, eq, gt, gte, in, lt, lte, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM).
week	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast week of a telecast. It must be begin on a Monday. The format is YYYY-MM-DD.
year	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar year of a telecast. It must the first day of the year. For example, "2016-01-01".

Metrics

The following metrics are available with the National Airing Views endpoint:

Name	Type	Demos	Streams
ad_retention_index	Double	False	ad_live, ad_live_plus_dvr_*
approximate_duration_minutes	Integer	True	–
available_hours	Double	False	–
avg_aud	Double	True	live, dvr_*, live_plus_dvr_*, ad_live, ad_live_plus_dvr_*
demo_data_is_complete	Boolean	True	–
demo_index	Double	True	live, dvr_*, live_plus_dvr_*, ad_live, ad_live_plus_dvr_*
distinct_duration_minutes	Array of Integer	True	–
duration_minutes	Integer	True	–
dvr_percent	Double	False	dvr_*
hut	Double	True	–
meets_demo_threshold	Boolean	True	live, dvr_*, live_plus_dvr_*, ad_live, ad_live_plus_dvr_*
meets_high_quality_demo_threshold	Boolean	True	live, dvr_*, live_plus_dvr_*, ad_live, ad_live_plus_dvr_*
num_airings	Integer	False	–
num_hhs	Double	False	–
num_hours	Double	False	live, dvr_*, live_plus_dvr_*
num_hut	Double	True	–
num_stbs	Double	False	–

percent_reach	Double	False	–
percent_viewed	Double	False	–
rating	Double	True	live, dvr_*, live_plus_dvr_*, ad_live, ad_live_plus_dvr_*
share	Double	True	–
stbs_per_hh	Double	False	–
stickiness_index	Double	False	–
total_duration_minutes	Integer	False	–
universe	Double	True	–
weighted_average_runtime_minutes	Double	False	–

Finding National Airing Views

This example shows how to use the National Airing Views endpoint to find ratings of shows airing on NBC between November 5, 2015 and November 8, 2015.

#	Series Name	Rating
01	Dateline NBC	3.357
02	Countdown to Green	0.9547
03	Last Call With Carson Daly	0.9916
04	Days of Our Lives	1.784
05	Today (1)	0.4524
06	Today (1)	0.475
07	Today (3)	2.1374
08	Heroes Reborn	3.0889
09	NBC Nightly News	4.6383
10	Open House NYC	0.8393
11	Ruff-Ruff, Tweet & Dave	1.2974
12	The Tonight Show Starring Jimmy Fallon	2.7611
13	NASCAR XFINITY START	1.3481
14	Earth to Luna!	0.8132
15	Truth Be Told	2.2271
16	Astroblast!	0.9616
17	Today (1)	4.5941
18	Today (2)	2.9207
19	Mad Money	0.2922

20	Today (2)	2.9766
21	Saturday Night Live	3.3674
22	Clangers	0.8905
23	Premier League Goal Zone	0.7592
24	NBC Nightly News	6.6963
25	Open House NYC	0.7001
26	The Player	2.8525
27	The Tonight Show Starring Jimmy Fallon	2.7813
28	Grimm	2.5237
29	1st Look	1.2015
30	Late Night with Seth Meyers	1.4099
31	Saturday Night Live	5.5648
32	Undateable	2.6002
33	Today (1)	4.5708
34	Days of Our Lives	1.7785
35	Late Night with Seth Meyers	1.5312
36	Dateline NBC	3.2761
37	English Premier League Soccer	0.9908
38	Early Today	0.881
39	Mad Money	0.2974
40	1st Look	0.5061
41	NASCAR Xfinity Series	1.9725
42	Today (3)	2.1807

43	Today Weekend	3.2094
44	LazyTown	0.6361
45	Last Call With Carson Daly	1.0863
46	The Blacklist	4.2211

Request

```
{

  "group_by": [ "national_airdatetime", "series_no" ],

  "fields": [ "series_name", "rating" ],

    "filters": [

      [ "eq", "network_no", 5 ],

      [ "gte", "day", "2015-11-05" ],

      [ "lt", "day", "2015-11-08" ]

    ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      "Dateline NBC",

      3.357

    ],
```

```
[
  "Countdown to Green",
  0.9547
],
[
  "Last Call With Carson Daly",
  0.9916
],
[
  "Days of Our Lives",
  1.784
],
[
  "Today (1)",
  0.4524
],
[
  "Today (1)",
  0.475
],
[
  "Today (3)",
  2.1374
],
[
  "Heroes Reborn",
```

    3.0889
  ],
  [
    "NBC Nightly News",
    4.6383
  ],
  [
    "Open House NYC",
    0.8393
  ],
  [
    "Ruff-Ruff, Tweet & Dave",
    1.2974
  ],
  [
    "The Tonight Show Starring Jimmy Fallon",
    2.7611
  ],
  [
    "NASCAR XFINITY START",
    1.3481
  ],
  [
    "Earth to Luna!",
    0.8132
  ],

```
[
  "Truth Be Told",
  2.2271
],
[
  "Astroblast!",
  0.9616
],
[
  "Today (1)",
  4.5941
],
[
  "Today (2)",
  2.9207
],
[
  "Mad Money",
  0.2922
],
[
  "Today (2)",
  2.9766
],
[
  "Saturday Night Live",
```

      3.3674
    ],
    [
      "Clangers",
      0.8905
    ],
    [
      "Premier League Goal Zone",
      0.7592
    ],
    [
      "NBC Nightly News",
      6.6963
    ],
    [
      "Open House NYC",
      0.7001
    ],
    [
      "The Player",
      2.8525
    ],
    [
      "The Tonight Show Starring Jimmy Fallon",
      2.7813
    ],

```
[
  "Grimm",
  2.5237
],
[
  "1st Look",
  1.2015
],
[
  "Late Night with Seth Meyers",
  1.4099
],
[
  "Saturday Night Live",
  5.5648
],
[
  "Undateable",
  2.6002
],
[
  "Today (1)",
  4.5708
],
[
  "Days of Our Lives",
```

      1.7785

    ],

    [

      "Late Night with Seth Meyers",

      1.5312

    ],

    [

      "Dateline NBC",

      3.2761

    ],

    [

      "English Premier League Soccer",

      0.9908

    ],

    [

      "Early Today",

      0.881

    ],

    [

      "Mad Money",

      0.2974

    ],

    [

      "1st Look",

      0.5061

    ],

```
    [
      "NASCAR Xfinity Series",
      1.9725
    ],
    [
      "Today (3)",
      2.1807
    ],
    [
      "Today Weekend",
       3.2094
    ],
    [
      "LazyTown",
      0.6361
    ],
    [
      "Last Call With Carson Daly",
      1.0863
    ],
    [
      "The Blacklist",
      4.2211
    ]
  ],
  "status": "success",
```

```
  "api_request_id": "ZTC6BbnL05vf",

  "api_time": 161,

  "final_date": "2015-12-18",

  "result_columns": [

    "series_name",

    "rating"

  ]

}
```

Finding Network Demographics

The following example shows how to use the National Airing Views endpoint to find and compare how network programming is performing by different demographic segments. The API gives you the ability to search by day, week, or month for age, gender, income, purchasing behavior, and many other demographic segments.

#	Network #	Rating	Share	Rating A25-54	Share A25-54
01	3	3.86	7.36	3.67	9.2
02	4	4.21	8.52	3.83	10.16
03	5	3.36	7.16	3.25	8.94

Request

```
{

  "group_by": [ "network_no" ],

  "fields": [ "network_no", "rating", "share",

    {

      "demo_no": 652,

      "alias": "Rating A25-54",

      "field": "rating"

    },

    {

      "demo_no": 652,

      "alias": "Share A25-54",

      "field": "share"

    }

  ],

  "filters": [
```

```
      [ "range", "day", "2013-09-30", "2013-10-27" ],

      [ "in", "network_no", 3, 4, 5 ]

    ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      4,

      4.2119,

      8.5244,

      3.8295,

      10.1649

    ],

    [

      5,

      3.3566,

      7.1567,

      3.2531,

      8.9422

    ],

    [

      3,
```

```
        3.8564,

        7.357,

        3.6718,

        9.193

      ]

    ],

    "status": "success",

    "api_request_id": "4jyeHj32j06Z",

    "api_time": 110,

    "final_date": "2015-11-20",

    "result_columns": [

      "network_no",

      "rating",

      "share",

      "Rating A25-54",

      "Share A25-54"

    ]

}
```

Finding Ratings and Average Audience

The following example shows how to use the National Airing Views endpoint to find household and demographic ratings, and average audience for series airing on three networks between November 26, 2015 and November 29, 2015.

#	Network	Series Name	Average Audience	Rating	AA 18-49	Rating 18-49
01	NBC	The National Dog Show	3719852.1201	3.2828	1978809.563	2.7961
02	ABC	Dr. Ken	1510067.0059	1.3326	864115.7352	1.221
03	CBS	Blue Bloods	4775147.963	4.2141	2370605.8072	3.3497
04	CBS	Hawaii Five-0	3943037.2037	3.4797	2033782.5229	2.8737
05	ABC	Santa Claus Is Comin' to Town	3769083.5738	3.3262	2321572.4543	3.2804
06	CBS	2 Broke Girls	4119565.0567	3.6355	2453542.8496	3.4669
07	NBC	Football Night in America	9441867.1115	8.3325	5763402.4286	8.1437
08	CBS	Mom	4608418.9609	4.0669	2716086.484	3.8378
09	ABC	Fresh Off the Boat	1270543.0108	1.1213	728479.5987	1.0293
10	NBC	Dateline NBC	3969995.851	3.5035	2186583.7034	3.0896
11	FOX	MasterChef Junior	1949822.987	1.7207	1175313.7975	1.6607
12	FOX	The All-Star Dog Rescue Celebration	1477403.8033	1.3038	805730.3065	1.1385
13	FOX	World's Funniest	1394616.4813	1.2308	870072.9795	1.2294
14	ABC	20/20	3835371.883	3.3847	2194573.7614	3.1009
15	ABC	The Muppets	1533261.6468	1.3531	847780.3205	1.1979
16	CBS	Life in Pieces	5097359.892	4.4984	3056984.821	4.3195
17	ABC	Last Man Standing	1540090.1215	1.3591	874271.5057	1.2353
18	CBS	Elementary	3461027.9133	3.0544	1965135.9675	2.7767
19	CBS	The Amazing Race	3720318.2075	3.2832	1990274.4728	2.8123

20	CBS	The Big Bang Theory	7951972.5098	7.0176	4784224.0408	6.7601
21	ABC	Shark Tank	3963270.9836	3.4976	2346325.0452	3.3154
22	ABC	The Middle	1376817.9404	1.215	796856.0549	1.126
23	ABC	The Goldbergs	1383595.5158	1.221	807658.1123	1.1412

Request

```
{

  "group_by": [

    "network_no",

    "series_no"

  ],

  "fields": [

    "network_name",

    "series_name",

    "avg_aud",

    "rating",

    {

      "alias": "AA A18-49",

      "demo_no": 3623,

      "field": "avg_aud"

    },

    {

      "alias": "AA A18-49",

      "demo_no": 3623,

      "field": "rating"
```

```
      }
   ],
   "filters": [
      [
         "range",
         "day",
         "2015-11-26",
         "2015-11-29"
      ],
      [
         "in",
         "network_no",
         3,
         4,
         6,
         5
      ],
      [
         "in",
         "day_of_week",
         "Mon",
         "Tue",
         "Wed",
         "Thu",
         "Fri"
      ],
```

```
    [
      "range",
      "qtr_hour_start_time",
      "20:00",
      "23:00"
    ]
  ]
}
```

Response

```
{
  "next_page_token": null,
  "api_version": "885655ce",
  "result_rows": [
    [
      "NBC",
      "The National Dog Show",
      3719852.1201,
      3.2828,
      1978809.563,
      2.7961
    ],
    [
      "ABC",
      "Dr. Ken",
      1510067.0059,
```

      1.3326,

      864115.7352,

      1.221

    ],

    [

      "CBS",

      "Blue Bloods",

      4775147.963,

      4.2141,

      2370605.8072,

      3.3497

    ],

    [

      "CBS",

      "Hawaii Five-O",

      3943037.2037,

      3.4797,

      2033782.5229,

      2.8737

    ],

    [

      "ABC",

      "Santa Claus Is Comin' to Town",

      3769083.5738,

      3.3262,

      2321572.4543,

    3.2804
  ],
  [
    "CBS",
    "2 Broke Girls",
    4119565.0567,
    3.6355,
    2453542.8496,
    3.4669
  ],
  [
    "NBC",
    "Football Night in America",
    9441867.1115,
    8.3325,
    5763402.4286,
    8.1437
  ],
  [
    "CBS",
    "Mom",
    4608418.9609,
    4.0669,
    2716086.484,
    3.8378
  ],

[

  "ABC",

  "Fresh Off the Boat",

  1270543.0108,

  1.1213,

  728479.5987,

  1.0293

],

[

  "NBC",

  "Dateline NBC",

  3969995.851,

  3.5035,

  2186583.7034,

  3.0896

],

[

  "FOX",

  "MasterChef Junior",

  1949822.987,

  1.7207,

  1175313.7975,

  1.6607

],

[

  "FOX",

```
    "The All-Star Dog Rescue Celebration",

    1477403.8033,

    1.3038,

    805730.3065,

    1.1385

  ],

  [

    "FOX",

    "World's Funniest",

    1394616.4813,

    1.2308,

    870072.9795,

    1.2294

  ],

  [

    "ABC",

    "20/20",

    3835371.883,

    3.3847,

    2194573.7614,

    3.1009

  ],

  [

    "ABC",

    "The Muppets",

    1533261.6468,
```

    1.3531,

    847780.3205,

    1.1979

  ],

  [

    "CBS",

    "Life in Pieces",

    5097359.892,

    4.4984,

    3056984.821,

    4.3195

  ],

  [

    "ABC",

    "Last Man Standing",

    1540090.1215,

    1.3591,

    874271.5057,

    1.2353

  ],

  [

    "CBS",

    "Elementary",

    3461027.9133,

    3.0544,

    1965135.9675,

      2.7767
    ],
    [
      "CBS",
      "The Amazing Race",
      3720318.2075,
      3.2832,
      1990274.4728,
      2.8123
    ],
    [
      "CBS",
      "The Big Bang Theory",
      7951972.5098,
      7.0176,
      4784224.0408,
      6.7601
    ],
    [
      "ABC",
      "Shark Tank",
      3963270.9836,
      3.4976,
      2346325.0452,
      3.3154
    ],

```
    [
      "ABC",
      "The Middle",
      1376817.9404,
      1.215,
      796856.0549,
      1.126
    ],
    [
      "ABC",
      "The Goldbergs",
      1383595.5158,
      1.221,
      807658.1123,
      1.1412
    ]
  ],
  "status": "success",
  "api_request_id": "NKKeeOYLJqN3",
  "api_time": 2027,
  "final_date": "2015-11-30",
  "result_columns":
    "network_name",
    "series_name",
    "avg_aud",
    "rating",
```

```
      "AA A18-49",

      "Rating A18-49"

   ]

}
```

Finding Ratings and Index

The following example shows how to use the National Airing Views endpoint to find ratings an demographic Indexes for several networks between September 22, 2015 and September 28, 2015.

#	Network Name	Rating Audi	Demo Index Audi	Rating BMW	Demo Index BMW
01	ABC	3.6784	91.403	3.6765	91.3539
02	ABC	7.0144	140.0531	6.4447	128.6787
03	CBS	3.9689	72.4416	4.4058	80.4167
04	FOX	1.5362	73.8058	1.8301	87.9269
05	NBC	4.1885	116.9519	3.7074	103.5188
06	CBS	4.2713	86.6118	3.8845	78.7681
07	ABC	4.5192	89.4032	4.3688	86.4276
08	FOX	1.9669	70.0663	2.4229	86.3108
09	ABC	3.5307	100.6298	4.1745	118.979
10	NBC	5.7801	103.2945	5.4767	97.8727
11	FOX	1.16	79.7963	1.54	105.9359
12	CBS	2.8504	58.7287	3.4119	70.2963
13	CBS	11.4894	117.1006	10.4263	106.2653
14	FOX	4.4728	63.0085	6.8168	96.0279
15	ABC	3.5227	93.7092	4.0766	108.4455
16	NBC	3.2695	86.4462	3.1503	83.2943
17	ABC	5.0923	95.9161	5.1525	97.0518
18	ABC	4.3671	71.5019	5.0428	82.5655
19	ABC	5.6062	123.3992	6.0243	132.6031

20	ABC	4.3966	108.3675	4.3456	107.109
21	CBS	7.1199	100.6962	6.744	95.3798
22	ABC	3.4928	92.0841	3.6818	97.067
23	CBS	4.0177	75.4126	4.1289	77.5002
24	ABC	3.0091	74.8358	3.3617	83.6037
25	NBC	2.8668	82.8148	3.0503	88.115
26	NBC	2.8196	86.5836	3.0209	92.7665
27	ABC	4.1038	93.5869	4.1841	95.4176
28	CBS	2.9836	79.3623	2.9184	77.6292
29	CBS	3.3346	55.5855	3.7166	61.9527
30	CBS	5.5719	68.5974	6.2017	76.3517
31	CBS	3.475	69.3609	4.0178	80.195
32	CBS	4.8627	57.5064	4.8733	57.631
33	NBC	7.8973	99.1959	7.7475	97.3142
34	ABC	4.9307	112.8223	4.9364	112.9521
35	NBC	3.6951	83.0406	4.1109	92.3862
36	FOX	1.7639	104.8566	1.7287	102.7627
37	ABC	4.3629	91.8267	4.5196	95.1243
38	CBS	3.1331	70.0499	3.1247	69.8614
39	NBC	3.8798	83.3379	3.8705	83.1397
40	CBS	2.1748	64.2621	2.4397	72.0897
41	CBS	3.7495	70.7614	3.9917	75.3317
42	ABC	4.2962	100.2827	4.4267	103.3293

Request

```
{

  "group_by": [

    "network_no",

    "series_no"

  ],

  "fields": [

    "network_name",

      {

        "alias": "Rating Audi",

        "demo_no": 6572,

        "field": "rating"

      },

      {

        "alias": "Demo Index Audi",

        "demo_no": 6572,

        "field": "demo_index"

      },

      {

        "alias": "Rating BMW",

        "demo_no": 6573,

        "field": "rating"

      },

      {

        "alias": "Demo Index BMW",
```

```
      "demo_no": 6573,

      "field": "demo_index"

    }

  ],

  "filters": [

    [

      "range",

      "day",

      "2015-09-22",

      "2015-09-28"

    ],

    [

      "in",

      "network_no",

      3,

      4,

      6,

      5

    ],

    [

      "in",

      "day_of_week",

      "Mon",

      "Tue",

      "Wed",

      "Thu",
```

```
        "Fri"
      ],
      [
        "range",
        "qtr_hour_start_time",
        "20:00",
        "23:00"
      ]
    ]
}
```

Response

```
{
  "next_page_token": null,
  "api_version": "885655ce",
  "result_rows": [
    [
      "ABC",
      3.6784,
      91.403,
      3.6765,
      91.3539
    ],
    [
      "ABC",
      7.0144,
```

      140.0531,

      6.4447,

      128.6787

    ],

    [

      "CBS",

      3.9689,

      72.4416,

      4.4058,

      80.4167

    ],

    [

      "FOX",

      1.5362,

      73.8058,

      1.8301,

      87.9269

    ],

    [

      "NBC",

      4.1885,

      116.9519,

      3.7074,

      103.5188

    ],

    [

    "CBS",

    4.2713,

    86.6118,

    3.8845,

    78.7681

],

[

    "ABC",

    4.5192,

    89.4032,

    4.3688,

    86.4276

],

[

    "FOX",

    1.9669,

    70.0663,

    2.4229,

    86.3108

],

[

    "ABC",

    3.5307,

    100.6298,

    4.1745,

    118.979

```
  ],
  [
    "NBC",
    5.7801,
    103.2945,
    5.4767,
    97.8727
  ],
  [
    "FOX",
    1.16,
    79.7963,
    1.54,
    105.9359
  ],
  [
    "CBS",
    2.8504,
    58.7287,
    3.4119,
    70.2963
  ],
  [
    "CBS",
    11.4894,
    117.1006,
```

```
      10.4263,

      106.2653

    ],

    [

      "FOX",

      4.4728,

      63.0085,

      6.8168,

      96.0279

    ],

    [

      "ABC",

      3.5227,

      93.7092,

      4.0766,

      108.4455

    ],

    [

      "NBC",

      3.2695,

      86.4462,

      3.1503,

      83.2943

    ],

    [

      "ABC",
```

```
      5.0923,

      95.9161,

      5.1525,

      97.0518

    ],

    [

      "ABC",

      4.3671,

      71.5019,

      5.0428,

      82.5655

    ],

    [

      "ABC",

      5.6062,

      123.3992,

      6.0243,

      132.6031

    ],

    [

      "ABC",

      4.3966,

      108.3675,

      4.3456,

      107.109

    ],
```

```
[
  "CBS",
  7.1199,
  100.6962,
  6.744,
  95.3798
],
[
  "ABC",
  3.4928,
  92.0841,
  3.6818,
  97.067
],
[
  "CBS",
  4.0177,
  75.4126,
  4.1289,
  77.5002
],
[
  "ABC",
  3.0091,
  74.8358,
  3.3617,
```

      83.6037
    ],
    [
      "NBC",
      2.8668,
      82.8148,
      3.0503,
      88.115
    ],
    [
      "NBC",
      2.8196,
      86.5836,
      3.0209,
      92.7665
    ],
    [
      "ABC",
      4.1038,
      93.5869,
      4.1841,
      95.4176
    ],
    [
      "CBS",
      2.9836,

```
      79.3623,

      2.9184,

      77.6292

    ],

    [

      "CBS",

      3.3346,

      55.5855,

      3.7166,

      61.9527

    ],

    [

      "CBS",

      5.5719,

      68.5974,

      6.2017,

      76.3517

    ],

    [

      "CBS",

      3.475,

      69.3609,

      4.0178,

      80.195

    ],

    [
```

    "CBS",

    4.8627,

    57.5064,

    4.8733,

    57.631

  ],

  [

    "NBC",

    7.8973,

    99.1959,

    7.7475,

    97.3142

  ],

  [

    "ABC",

    4.9307,

    112.8223,

    4.9364,

    112.9521

  ],

  [

    "NBC",

    3.6951,

    83.0406,

    4.1109,

    92.3862

      ],
      [
        "FOX",
        1.7639,
        104.8566,
        1.7287,
        102.7627
      ],
      [
        "ABC",
        4.3629,
        91.8267,
        4.5196,
        95.1243
      ],
      [
        "CBS",
        3.1331,
        70.0499,
        3.1247,
        69.8614
      ],
      [
        "NBC",
        3.8798,
        83.3379,

```
      3.8705,

      83.1397

    ],

    [

      "CBS",

      2.1748,

      64.2621,

      2.4397,

      72.0897

    ],

    [

      "CBS",

      3.7495,

      70.7614,

      3.9917,

      75.3317

    ],

    [

      "ABC",

      4.2962,

      100.2827,

      4.4267,

      103.3293

    ]

  ],

  "status": "success",
```

```
  "api_request_id": "AfcoOejrbVbu",

  "api_time": 2791,

  "final_date": "2015-11-30",

  "result_columns": [

    "network_name",

    "Rating Audi",

    "Demo Index Audi",

    "Rating BMW",

    "Demo Index BMW"

  ]

}
```

Finding Demographic Index

The following example shows how to use the National Airing Views endpoint to find Demographic Indexes for several cable/satellite channels between August 4, 2014 and August 31, 2015.

#	Network Name	Demo Index Audi	Demo Index BMW
01	Tennis Channel	295.7718	166.4762
02	MSNBC	105.6962	103.0972
03	Golf Channel	183.335	197.7494
04	Golf Channel	null	188.8774
05	Golf Channel	268.7953	230.5443
06	Golf Channel	308.3591	218.2504
07	CNBC: Consumer News & Business Channel	182.1233	176.0904
08	CNBC: Consumer News & Business Channel	226.391	176.7293
09	Tennis Channel	null	null
10	Tennis Channel	319.0633	207.4424
11	Tennis Channel	310.8076	298.9678
12	Tennis Channel	null	null
13	Tennis Channel	273.7528	185.7587
14	Tennis Channel	null	252.44061
15	Tennis Channel	385.2677	197.6937
16	Golf Channel	318.6832	228.9568
17	Golf Channel	256.8051	198.9635
18	CNBC: Consumer News & Business Channel	218.7022	209.8288

19	Tennis Channel	240.3779	258.9488
20	Tennis Channel	225.9145	258.0364
21	Golf Channel	225.7597	190.6086
22	CNBC: Consumer News & Business Channel	230.6066	190.551
23	CNBC: Consumer News & Business Channel	200.8725	238.6457
24	MSNBC	104.6373	81.0785
25	Golf Channel	198.8265	134.6806
26	MSNBC	105.8441	99.0332
27	MSNBC	75.8709	98.5809
28	Tennis Channel	null	180.0206
29	Golf Channel	236.0347	201.0953
30	MSNBC	97.863	100.4709

Request

```
{
  "group_by": [
    "network_no",
    "series_no"
  ],
  "fields": [
    "network_name",
    {
      "alias": "Demo Index Audi",
      "demo_no": 6572,
      "field": "demo_index"
```

```
    },
    {
      "alias": "Demo Index BMW",

      "demo_no": 6573,

      "field": "demo_index"
    }
  ],
  "filters": [
    [
      "range",

      "day",

      "2015-08-04",

      "2015-08-31"
    ],
    [
      "in",

      "network_no",

      623,

      357,

      311,

      412
    ],
    [
      "in",

      "day_of_week",

      "Mon",
```

```
        "Tue",

        "Wed",

        "Thu",

        "Fri"

      ],

      [

        "range",

        "qtr_hour_start_time",

        "20:00",

        "23:00"

      ]

    ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      "Tennis Channel",

      295.7718,

      166.4762

    ],

    [

      "MSNBC",
```

    105.6962,

    103.0972

  ],

  [

    "Golf Channel",

    183.335,

    197.7494

  ],

  [

    "Golf Channel",

    null,

    188.8774

  ],

  [

    "Golf Channel",

    268.7953,

    230.5443

  ],

  [

    "Golf Channel",

    308.3591,

    218.2504

  ],

  [

    "CNBC: Consumer News & Business Channel",

    182.1233,

      176.0904
    ],
    [
      "CNBC: Consumer News & Business Channel",
      226.391,
      176.7293
    ],
    [
      "Tennis Channel",
      null,
      null
    ],
    [
      "Tennis Channel",
      319.0633,
      207.4424
    ],
    [
      "Tennis Channel",
      310.8076,
      298.9678
    ],
    [
      "Tennis Channel",
      null,
      null

```
  ],
  [
    "Tennis Channel",
    273.7528,
    185.7587
  ],
  [
    "Tennis Channel",
    null,
    252.4406
  ],
  [
    "Tennis Channel",
    385.2677,
    197.6937
  ],
  [
    "Golf Channel",
    318.6832,
    228.9568
  ],
  [
    "Golf Channel",
    256.8051,
    198.9635
  ],
```

```
[
  "CNBC: Consumer News & Business Channel",
  218.7022,
  209.8288
],
[
  "Tennis Channel",
  240.3779,
  258.9488
],
[
  "Tennis Channel",
  225.9145,
  258.0364
],
[
  "Golf Channel",
  225.7597,
  190.6086
],
[
  "CNBC: Consumer News & Business Channel",
  30.6066,
  190.551
],
[
```

    "CNBC: Consumer News & Business Channel",

    200.8725,

    238.6457

  ],

  [

    "MSNBC",

    104.6373,

    81.0785

  ],

  [

    "Golf Channel",

    198.8265,

    134.6806

  ],

  [

    "MSNBC",

    105.8441,

    99.0332

  ],

  [

    "MSNBC",

    75.8709,

    98.5809

  ],

  [

    "Tennis Channel",

```
      null,

      180.0206

    ],

    [

      "Golf Channel",

      236.0347?,

      201.0953?

    ],

    [

      "MSNBC",

      97.863,

      100.4709

    ]

  ],

  "status": "success",

  "api_request_id": "FqZvEtMjsSpf",

  "api_time": 5657,

  "final_date": "2015-11-30",

  "result_columns": [

    "network_name",

    "Demo Index Audi",

    "Demo Index BMW"

  ]

}
```

Finding Program Average

The following example shows how to use the National Airing Views endpoint to find to find series-level, program average viewership information including demographic data for two shows airing on a network in May 2015.

#	Series	Network	Day	Duration	Rating	Rtg A18-49	Rtg A25-54
01	The Big Bang Theory	CBS	mon thu	242	5.5847	5.5847	5.5847
02	NCIS	CBS	tue	300	5.6046	5.6046	5.6046

Request

```
{

  "fields": [

    "series_name",

    "network_name",

    "days_of_week",

    "total_duration_minutes",

    {

      "field": "rating"

    },

    {

      "field": "rating",

      "alias": "Rating A1849"

    },

    {

      "field": "rating",

      "alias": "Rating A2554"
```

```
    }
  ],
  "filters": [
    [
      "range",
      "day",
      "2015-05-01",
      "2015-05-31"
    ],
    [
      "in",
      "day_of_week",
      "mon", "tue", "wed", "thu", "fri", "sat", "sun"
    ],
    [
      "in",
      "network_no",
      4
    ],
    [
      "in",
      "series_no",
      1856186,
      1168954
    ]
  ],
```

```
  "group_by": [

    "series_no",

    "network_no"

  ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      "The Big Bang Theory",

      "CBS",

      [

      "mon",

      "thu"

      ],

      242,

      5.5847,

      5.5847,

      5.5847

    ],

    [

      "NCIS",

      "CBS",
```

```
      [
        "tue",
      ],
      300,
      5.6046,
      5.6046,
      5.6046
    ]
  ],
  "status": "success",
  "api_request_id": "pUpSRi1hR0YF",
  "final_date": "2015-11-20",
  "result_columns": [
    "series_name",
    "network_name",
    "days_of_week",
    "total_duration_minutes",
    "rating",
    "Rating A1849",
    "Rating A2554"
  ]
}
```

Finding Share and Rating

The following example shows how to use the National Airing Views endpoint to find share and rating data for a television station between November 18, 2014 and November 22, 2014.

Station Name	Share	Rating
WABC New York, N.Y. (ABC)	5.1813	1.9057

Request

```
{

  "fields": [ "station_name", "share", "rating" ],

    "filters": [

      [ "range", "day", "2014-11-18", "2014-11-22" ],

      [ "eq", "station_no", 4201 ]

    ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [ "WABC New York, N.Y. (ABC)", 5.1813, 1.9057 ]

  ],

  "status": "success",

  "api_request_id": "kIsHoVxD51n8",

  "api_time": 127,
```

```
  "final_date": "2015-11-03",

  "result_columns": [

    "station_name",

    "share",

    "rating"

  ]

}
```

National Time Views Endpoint

The National Time Views endpoint provides access to household-level measurements an advanced demographics at the market station level, broken down to 15 minute intervals.

Path

```
/tv/v4/national_time_views
```

Request Object

The National Time Views request object uses the following keys:

Name	Type	R / O	Description
as_client_id	Array	Optional	The client identification code.
fields	Array of String	Required	The fields to include in the result dataset.
filters	Array of String	Required	A conjunctive set of filters to apply to request.
group_by	Array of String	Required	The keys for grouping results. The response dataset will contain one row for each combination of values of the keys in group_by.
include_non_final_data	Boolean	Optional	Indicates whether to include initial data in the response.
page_size	Integer	Optional	The number of records per page. The default is 10000.
start_of_day	String	Required	Defines the start of the broadcast day. Supports any whole hour from 12AM ("00:00" or "0:00") to 8AM ("08:00" or "8:00"). Defaults to 6AM. Quarter hour ranges specified in the filters must not cross the start_of_day value.
timeout	Integer	Optional	The amount of time before the API switches to asynchronous mode. When timeout is set to 0, asynchronous mode is invoked immediately.

Fields

The following fields are available with the National Time Views endpoint:

Field Name	Type	GroupBy	Filters	Description
day	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast date (with a 6:00 a.m. start) of a telecast. The format is YYYY-MM-DD.
day_of_week	String	False	any, eq, in, neq	The broadcast day of a telecast. For example, "tue".
days_of_week	Array of String	False	—	The broadcast days of a telecast. For example, "mon" and "thur".
market_long_name	String	False	any, eq, in, neq	The full name of a television market. For example, "Reno CA-NV".
market_name	String	False	any, eq, in, neq	The name of a television market. For example, "Reno".
market_no	Integer	True	any, eq, in, ne	The unique identification number assigned to a television market. For example, "811".
month	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar month of a telecast. It must be the first day of the month. For example, "2016-08-01".
network_name	String	False	any, eq, in, neq	The name of a broadcast or cable network. For example, "Showtime".
network_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a broadcast or cable network. For example, "17" is the code for Showtime.
qtr_hour	Time	True	any, eq, gt, gte, in, lt, lte, neq, range	The start time of the specified quarter hour. The format is HH:MM:SS (AM/PM). The MM value must be 00, 15, 30, or 45.
quarter	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar quarter of a telecast. It must be the first day of January, April, July, or October. For example, "2016-07-01".

series_name	String	False	any, eq, in, neq	The title of a television series. For example, "Undateable".
series_names	Array of String	False	–	A list of television series.
series_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television series. For example, "2291199".
station_call_sign	String	False	any, eq, in, neq	The unique code assigned to a television station. For example, "KATU".
station_name	String	False	any, eq, in, neq	The name of a television station. For example, "WABC New York, N.Y. (ABC)".
station_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television station. For example, "4201".
week	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast week of a telecast. It must begin on a Monday. The format is YYYY-MM-DD.
year	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar year of a telecast. It must be the first day of the year. For example, "2016-01-01".

Request Limits

Requests for this endpoint can include up to 100 stations and 20 demos.

Metrics

The following metrics are available with the National Time Views endpoint:

Name	Type	Demos	Streams
available_hours	Double	False	–
avg_aud	Double	True	live, dvr_*, live_plus_dvr_*
demo_data_is_complete	Boolean	True	–
demo_index	Double	True	live, live_plus_dvr_*
hut	Double	True	–
meets_demo_threshold	Boolean	True	–
meets_high_quality_demo_threshold	Boolean	True	–
num_hours	Double	False	live, dvr_*, live_plus_dvr_*
num_hut	Double	True	–
rating	Double	True	live, dvr_*, live_plus_dvr_*
share	Double	True	–
universe	Double	True	–

Response Object

The result_columns key will contain all the metadata fields for the requested type, and the result_rows key will contain one row for each item of metadata that matches the search and filters, up to the specified limit.

The response object includes the following keys:

Name	Type	When	Description
api_request_id	String	Always	A unique request identifier.
api_time	Integer	Always	The elapsed time for the API request.

disclosures	String	Conditional	A subscriber notification about events or changes that affected reporting for the selected date range, market, and/or network.
final_date	Date	Always	The date in the system that reporting is locked.
message	String	On Failure	An error message. Additional keys may be included that are unique to the type of error and specific to each endpoint.
result_columns	Array	On Success	The column names of the result dataset.
result_rows	Array	On Success	The rows (each an array of values) of the result dataset that correspond to column names.
status	String	Always	A machine readable code equal to "success" if the request succeeded or a specific error code identifying the type of error.
warnings	String	Conditional	An error message generated when part of a request cannot be fulfilled.

Metrics

The following metrics are available with the National Time Views endpoint:

Name	Type	Demos	Streams
available_hours	Double	False	–
avg_aud	Double	True	live, dvr_*, live_plus_dvr_*
demo_data_is_complete	Boolean	True	–
demo_index	Double	True	live, live_plus_dvr_*
hut	Double	True	–
meets_demo_threshold	Boolean	True	–
meets_high_quality_demo_threshold	Boolean	True	–
num_hours	Double	False	live, dvr_*, live_plus_dvr_*
num_hut	Double	True	–
rating	Double	True	live, dvr_*, live_plus_dvr_*
share	Double	True	–
universe	Double	True	–

Local Airing Views Endpoint

The Local Airing Views endpoint allows you to request local title or episode-oriented data. It retrieves metrics for series or individual titles included in local programming (national programming is not included). You can filter on program-specific items such as date range, specific titles, and duration. This makes the endpoint useful for program research reports such as trends and rankers as well as posting.

Path

```
/tv/v4/local_airing_views
```

Request Object

The Local Airing Views request object uses the following keys:

Name	Type	R / O	Description
as_client_id	String	Optional	The client identification code.
fields	Array of String	Required	The fields to include in the result dataset.
filters	Array of String	Required	A conjunctive set of filters to apply to request.
group_by	Array of String	Required	The keys for grouping results. The response dataset will contain one row for each combination of values of the keys in group_by.
include_non_final_data	Boolean	Optional	Indicates whether to include initial data in the response.
page_size	Integer	Optional	The number of records per page. The default is 10000.
start_of_day	String	Required	Defines the start of the broadcast day. Supports any whole hour from 12AM ("00:00" or "0:00") to 8AM ("08:00" or "8:00"). Defaults to 6AM. Quarter hour ranges specified in the filters must not cross the start_of_day value.
timeout	Integer	Optional	The amount of time before the API switches to asynchronous mode. When timeout is set to 0, asynchronous mode is invoked immediately.

Request Limits

Requests for this endpoint can include up to 100 stations and 20 demos.

Response Object

The result_columns key will contain all the metadata fields for the requested type, and the result_rows key will contain one row for each item of metadata that matches the search and filters, up to the specified limit.

The response object includes the following keys:

Name	Type	When	Description
api_request_id	String	Always	A unique request identifier.
api_time	Integer	Always	The elapsed time for the API request.
disclosures	String	Conditional	A subscriber notification about events or changes that affected reporting for the selected date range, market, and/or network.
final_date	Date	Always	The date in the system that reporting is locked.
message	String	On Failure	An error message. Additional keys may be included that are unique to the type of error and specific to each endpoint.
result_columns	Array	On Success	The column names of the result dataset.
result_rows	Array	On Success	The rows (each an array of values) of the result dataset that correspond to column names.
status	String	Always	A machine readable code equal to "success" if the request succeeded or a specific error code identifying the type of error.
warnings	String	Conditional	An error message generated when part of a request cannot be fulfilled.

Fields

The following fields are available with the Local Airing Views endpoint:

Name	Type	GroupBy	Filters	Description
airdatetime	Timestamp	True	any, eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast begins. For example, "2016-01-01T08:12:00.000".
approximate_start_time	Time	True	any, eq, in, neq, range	The estimated start time for a telecast. The format is HH:MM:SS (AM/PM).
calendar_day	Date	True	–	The calendar date of a telecast. The format is YYYY-MM-DD.
calendar_day_of_week	String	False	any, eq, in, neq	The calendar day of a telecast. For example, "wed".
calendar_month	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar month of a telecast.
calendar_quarter	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar quarter of a telecast.
calendar_week	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar week of a telecast.
calendar_year	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar year of a telecast.
day	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast date (with a 6:00 a.m. start) of a telecast. The format is YYYY-MM-DD.
day_of_week	String	False	any, eq, in, neq	The broadcast day of a telecast. For example, "tue".
days_of_week	Array of String	False	–	The broadcast days of a telecast. For example, "mon" and "thur".
distinct_special_flag_short_names	Array of String	False	–	A list of identification codes for telecasts.

distinct_start_times	Array of Time	True	–	A list of start times for telecasts. The format is HH:MM:SS (AM/PM).
end_time	Time	True	any, eq, gt, gte, in, lt, lte, neq, range	The end time for a telecast. The format is HH:MM:SS (AM/PM).
episode_no	Integer	True	any, eq, in, neq	The chronological number assigned to an episode of a television series.
episode_title	String	False	any, eq, in, neq	The name of an episode of a television series.
half_hour_start_time	Time	True	any, eq, in, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00 or 30.
hour_start_time	Time	Time	any, eq, in, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00.
is_local_news	Boolean	True	any, eq, in, neq	A flag that indicates if a telecast is local news-related.
is_national_news	Boolean	True	any, eq, in, neq	A flag that indicates if a telecast is national news-related.
is_new_airing	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is airing for the first time.
is_repeat_airing	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is a rerun.
is_season_finale	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the last for the current season.
is_season_premiere	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the first in a new season.
is_series_finale	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the last one ever.
is_series_premiere	Boolean	True	any, eq, in, neq	A flag that indicates if an episode of a television series is the first one ever.
is_special_airing	Boolean	True	any, eq, in, neq	A flag that indicates if a telecast falls into a unique or one time category.

local_airdatetime	Timestamp	True	any, eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast begins in a local market. For example, "2016-01-01T08:12:00.000".
market_long_name	String	False	any, eq, in, neq	The full name of a television market. For example, "Reno CA-NV".
market_name	String	False	any, eq, in, neq	The name of a television market. For example, "Reno".
market_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television market. For example, "811".
month	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar month of a telecast. It must be the first day of the month. For example, "2016-08-01".
national_air-datetime	Timestamp	True	any, eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast begins nationally. For example, "2016-01-01T08:12:00.000".
network_name	String	False	any, eq, in, neq	The name of a broadcast or cable network. For example, "Game Show Network".
network_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a broadcast or cable network. For example, "371" is the code for the Game Show Network.
network_short_name	String	False	any, eq, in, neq	An abbreviation or acronym for the name of a network. For example, "GSN" is the short name for the Game Show Network.
network_type	String	False	any, eq, in, neq	The network category. This is either "Broadcast" or "Cable".
qtr_hour_start_time	Time	True	any, eq, in, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00, 15, 30, or 45.
quarter	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar quarter of a telecast. It must the first day of January, April, July, or October. For example, "2016-07-01".
series_genre	String	False	—	The primary category assigned to a television series. For example, "Comedy".

series_genre_no	Integer	False	any, eq, in, neq	The unique identification number for the genre. For example, "3".
series_name	String	False	any, eq, in, neq	The title of a television series. For example, "The Big Bang Theory".
series_name_15	String	False	any, eq, in, neq	A shortened version of the television series title. For example, "Big Bang Theory".
series_name_or_various	String	False	–	The title of a television series or "various" if the title is not available.
series_names	Array of String	False	–	A list of television series.
series_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television series. For example, "2291199".
series_subgenre	String	False	–	The secondary category assigned to a television series. For example, "Sitcom".
series_subgenre_no	Integer	False	any, eq, in, neq	The unique identification number for the subgenre. For example, "46".
start_time	Time	True	any, eq, gt, gte, in, lt, lte, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM).
station_call_sign	String	False	any, eq, in, neq	The unique code assigned to a television station. For example, "KATU".
station_medium_description	String	False	any, eq, in, neq	A short description of the station medium.
station_medium_id	String	False	any, eq, in, neq	The unique identifier assigned to a communication outlet or tool used to store and deliver information.
station_medium_no	Integer	True	any, eq, in, neq	The number assigned to a specific station medium.
station_name	String	False	any, eq, in, neq	The name of a television station. For example, "WABC New York, N.Y. (ABC)".

station_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television station. For example, "4201".
week	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast week of a telecast. It must begin on a Monday. The format is YYYY-MM-DD.
year	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar year of a telecast. It must be the first day of the year. For example, "2016-01-01".

Metrics

The following metrics are available with the Local Airing Views endpoint:

Name	Type	Demos	Stream
approximate_duration_minutes	Integer	True	–
available_hours	Double	False	–
avg_aud	Double	True	live, dvr_*, live_plus_dvr_*
demo_data_is_complete	Boolean	True	–
demo_index	Double	True	live, live_plus_dvr_*
distinct_duration_minutes	Array of Integer	True	–
duration_minutes	Integer	True	–
hut	Double	True	–
meets_demo_threshold	Boolean	True	live, live_plus_dvr_*
meets_high_quality_demo_threshold	Boolean	True	live, live_plus_dvr_*
num_airings	Integer	False	–
num_hours	Double	False	live, dvr_*, live_plus_dvr_*
num_hut	Double	True	–
rating	Double	True	live, dvr_*, live_plus_dvr_*
share	Double	True	–
stickiness_index	Double	False	–
total_duration_minutes	Integer	False	–
universe	Double	True	–

Finding Local Program Average

The following example shows how to use the Local Airing Views endpoint to find local market data for a television series.

#	Num Hours	Avg Aud	Mkt Name	Mkt #	Airings	Rating	Share	Station	Station #	Series	Series #
01	291782.1958	291782.1958	New York	501	18	3.96	7.9051	WABC	4201	ABC News	2291199
02	1836804.9323	183680.4932	Philadelphia	504	20	6.2949	12.8913	WPVI	4633	ABC News	2291199
03	294386.6906	245322.2421	New York	501	1	3.3294	6.5005	WABC	4201	Papal Mass	2374757

Request

```
{

  "fields": [

    "num_hours",

    "avg_aud",

    "market_name",

    "market_no",

    "num_airings",

    "rating",

    "share",

    "station_name",

    "station_no",

    "series_name_or_various",

    "series_no"
```

```
    ],
    "filters": [
      ["range", "day", "2015-08-31", "2015-09-27"],
      ["or", ["market_no", "station_call_sign"],
        [["eq", 501],
        ["eq", "WABC"]],
        [["eq", 504],
        ["eq", "WPVI"]]],
      ["eq", "start_time", "18:30"],
      ["in", "day_of_week", "mon", "tue", "wed", "thu", "fri"]
    ],
    "group_by": ["market_no", "station_no", "series_no"]
}
```

Response

```
{
  "next_page_token": null,
  "api_version": "885655ce",
  "result_rows": [
    [
      2626039.762,
      291782.1958,
      "New York",
      501,
      18,
      3.96,
```

      7.9051,

      "WABC New York, N.Y. (ABC)",

      4201,

      "ABC World News Tonight with David Muir",

      2291199

    ],

    [

      1836804.9323,

      183680.4932,

      "Philadelphia",

      504,

      20,

      6.2949,

      12.8913,

      "WPVI Philadelphia, Pa. (ABC)",

      4633,

      "ABC World News Tonight with David Muir",

      2291199

    ],

    [

      294386.6906,

      245322.2421,

      "New York",

      501,

      1,

      3.3294,

```
      6.5005,

      "WABC New York, N.Y. (ABC)",

      4201,

      "Pope Francis Celebrates Mass at Madison Square Garden",

      2374757
    ]
  ],
  "status": "success",

  "api_request_id": "9lsQbqrRCV7v",

  "api_time": 3786,

  "final_date": "2015-12-03",

  "result_columns": [

    "num_hours",

    "avg_aud",

    "market_name",

    "market_no",

    "num_airings",

    "rating",

    "share",

    "station_name",

    "station_no",

    "series_name_or_various",

    "series_no"
  ]
}
```

Local Time Views Endpoint

The Local Time Views endpoint provides access to household-level measurements an advanced demographics at the market station level, broken down to 15 minute intervals.

Path

```
/tv/v4/local_time_views
```

Request Object

The Local Time Views request object uses the following keys:

Name	Type	R / O	Description
as_client_id	Array	Optional	The client identification code.
fields	Array of String	Required	The fields to include in the result dataset.
filters	Array of String	Required	A conjunctive set of filters to apply to request.
group_by	Array of String	Required	The keys for grouping results. The response dataset will contain one row for each combination of values of the keys in group_by.
include_non_final_data	Boolean	Optional	Indicates whether to include initial data in the response.
page_size	Integer	Optional	The number of records per page. The default is 10000.
start_of_day	String	Required	Defines the start of the broadcast day. Supports any whole hour from 12AM ("00:00" or "0:00") to 8AM ("08:00" or "8:00"). Defaults to 6AM. Quarter hour ranges specified in the filters must not cross the start_of_day value.
timeout	Integer	Optional	The amount of time before the API switches to asynchronous mode. When timeout is set to 0, asynchronous mode is invoked immediately.

Request Limits

Requests for this endpoint can include up to 100 stations and 20 demos.

Response Object

The result_columns key will contain all the metadata fields for the requested type, and the result_rows key will contain one row for each item of metadata that matches the search and filters, up to the specified limit.

The response object includes the following keys:

Name	Type	When	Description
api_request_id	String	Always	A unique request identifier.
api_time	Integer	Always	The elapsed time for the API request.
disclosures	String	Conditional	A subscriber notification about events or changes that affected reporting for the selected date range, market, and/or network.
final_date	Date	Always	The date in the system that reporting is locked.
message	String	On Failure	An error message. Additional keys may be included that are unique to the type of error and specific to each endpoint.
result_columns	Array	On Success	The column names of the result dataset.
result_rows	Array	On Success	The rows (each an array of values) of the result dataset that correspond to column names.
status	String	Always	A machine readable code equal to "success" if the request succeeded or a specific error code identifying the type of error.
warnings	String	Conditional	An error message generated when part of a request cannot be fulfilled.

Fields

The following fields are available with the Local Time Views endpoint:

Field Name	Type	GroupBy	Filters	Description
day	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast date (with a 6:00 a.m. start) of a telecast. The format is YYYY-MM-DD.
day_of_week	String	False	any, eq, in, neq	The broadcast day of a telecast. For example, "tue".
days_of_week	Array of String	False	—	The broadcast days of a telecast. For example, "mon" and "thur".
market_long_name	String	False	any, eq, in, neq	The full name of a television market. For example, "Reno CA-NV".
market_name	String	False	any, eq, in, neq	The name of a television market. For example, "Reno".
market_no	Integer	True	any, eq, in, ne	The unique identification number assigned to a television market. For example, "811".
month	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar month of a telecast. It must be the first day of the month. For example, "2016-08-01".
network_name	String	False	any, eq, in, neq	The name of a broadcast or cable network. For example, "Showtime".
network_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a broadcast or cable network. For example, "17" is the code for Showtime.
qtr_hour	Time	True	any, eq, gt, gte, in, lt, lte, neq, range	The start time of the specified quarter hour. The format is HH:MM:SS (AM/PM). The MM value must be 00, 15, 30, or 45.
quarter	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar quarter of a telecast. It must be the first day of January, April, July, or October. For example, "2016-07-01".

series_name	String	False	any, eq, in, neq	The title of a television series. For example, "Undateable".
series_names	Array of String	False	—	A list of television series.
series_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television series. For example, "2291199".
station_call_sign	String	False	any, eq, in, neq	The unique code assigned to a television station. For example, "KATU".
station_name	String	False	any, eq, in, neq	The name of a television station. For example, "WABC New York, N.Y. (ABC)".
station_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television station. For example, "4201".
week	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast week of a telecast. It must begin on a Monday. The format is YYYY-MM-DD.
year	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar year of a telecast. It must be the first day of the year. For example, "2016-01-01".

Metrics

The following metrics are available with the Local Time Views endpoint:

Name	Type	Demos	Streams
available_hours	Double	False	–
avg_aud	Double	True	live, dvr_*, live_plus_dvr_*
demo_data_is_complete	Boolean	True	–
demo_index	Double	True	live, live_plus_dvr_*
hut	Double	True	–
meets_demo_threshold	Boolean	True	–
meets_high_quality_demo_threshold	Boolean	True	–
num_hours	Double	False	live, dvr_*, live_plus_dvr_*
num_hut	Double	True	–
rating	Double	True	live, dvr_*, live_plus_dvr_*
share	Double	True	–
universe	Double	True	–

Finding Local Network Data

The following example shows how to use the Local Time Views endpoint to find local network data for the Portland television market.

#	Day	Call Sign	Ntwk	Universe	Share	HUT	Rating	Avg Aud	A25-49 Share	A25-49 HUT	A25-49 Rating	A25-49 Avg Aud
01	2016-12-12	KATU	ABC	1143670	9.3773	52.1532	4.8906	55932.0195	10.3381	39.3431	4.0673	26513.1455
02	2016-12-12	KOIN	CBS	1143670	9.2938	52.1532	4.847	55434.1486	9.3075	39.3431	3.6619	23870.1377
03	2016-12-12	KGW	NBC	1143670	8.9098	52.1532	4.6468	53143.4968	10.5265	39.3431	4.1415	26996.3283
04	2016-12-13	KATU	ABC	1143670	11.2027	48.4748	5.4305	62106.7625	12.1938	36.7713	4.4838	29227.9687
05	2016-12-13	KOIN	CBS	1143670	11.4082	48.4748	5.5301	63246.3889	12.2152	36.7713	4.4917	29279.3514
06	2016-12-13	KGW	NBC	1143670	10.6397	48.4748	5.1576	58985.8232	12.5301	36.7713	4.6075	30034.0758
07	2016-12-14	KGW	NBC	1143670	12.6929	52.8533	6.7086	76724.2138	16.0087	39.845	6.3787	41579.6414
08	2016-12-14	KATU	ABC	1143670	12.7598	52.8533	6.744	77128.8271	14.6513	39.845	5.8378	38054.0022
09	2016-12-14	KOIN	CBS	1143670	11.8611	52.8533	6.269	71696.4595	12.8912	39.845	5.1365	33482.6598
10	2016-12-15	KATU	ABC	1143670	10.1019	53.9427	5.4492	62321.0024	11.2658	41.2211	4.6439	30271.556
11	2016-12-15	KOIN	CBS	1143670	9.1484	53.9427	4.9349	56439.1046	9.7138	41.2211	4.0042	26101.3349

12	2016-12-15	KGW	NBC	1143670	27.8546	53.9427	15.0255	171842.2838	35.3633	41.2211	14.5772	95022.1696
13	2016-12-16	KGW	NBC	1143670	9.8347	47.0322	4.6255	52900.0281	12.1243	33.9419	4.1152	26825.1648
14	2016-12-16	KOIN	CBS	1143670	10.7227	47.0322	5.0431	57676.735	11.2845	33.9419	3.8302	24967.2372
15	2016-12-16	KATU	ABC	1143670	11.1086	47.0322	5.2246	59752.567	12.4803	33.9419	4.2361	27612.9711
16	2016-12-17	KGW	NBC	1143670	10.897	48.6728	5.3039	60658.6493	11.8277	34.6794	4.1018	26737.6351
17	2016-12-17	KATU	ABC	1143670	6.6486	48.6728	3.2361	37010.0867	8.0249	34.6794	2.783	18140.9699
18	2016-12-17	KOIN	CBS	1143670	12.2508	48.6728	5.9628	68194.7652	12.8611	34.6794	4.4601	29073.755
19	2016-12-18	KATU	ABC	1143670	10.0286	52.529	5.2679	60247.6366	10.6523	38.0206	4.0501	26400.6241
20	2016-12-18	KOIN	CBS	1143670	11.7393	52.529	6.1665	70524.8314	13.3287	38.0206	5.0677	33033.8088
21	2016-12-18	KGW	NBC	1143670	28.8712	52.529	15.1657	173445.9163	40.8605	38.0206	15.5354	101268.5642

Request

```
{
  "fields": [
    "day",
    "station_call_sign",
    "network_name",
```

```
    "universe",

    "share",

    "hut",

    "rating",

    "avg_aud",

    {

      "field": "share",

      "demo_no": 5053,

"alias":"A25-49_demo_share"

    },

    {

      "field": "hut",

      "demo_no": 5053,

"alias":"A25-49_demo_hut"

    },

    {

      "field": "rating",

      "demo_no": 5053,

"alias":"A25-49_demo_rating"

    },

    {

      "field": "avg_aud",

      "demo_no": 5053,

      "alias":"A25-49_demo_avg_aud"

    }

    ],
```

```
    "filters": [

      [ "range", "day", "2016-12-12", "2016-12-18" ],

      [ "range", "qtr_hour", "18:00", "19:00" ],

      [ "eq", "market_no", 820 ],

      [ "in", "station_call_sign", "KATU", "KOIN", "KGW"]

    ],

    "group_by": [

     "market_no",

     "station_no",

     "network_no",

     "day"

    ]

}
```

Response

```
{

  "next_page_token": null,

  "warnings": [],

  "api_version": "7ac87123",

  "result_rows": [

    [

      "2016-12-12",

      "KATU",

      "ABC",

      1143670,

      9.3773,
```

      52.1532,

      4.8906,

      55932.0195,

      10.3381,

      39.3431,

      4.0673,

      26513.1455
    ],
    [

      "2016-12-12",

      "KOIN",

      "CBS",

      1143670,

      9.2938,

      52.1532,

      4.847,

      55434.1486,

      9.3075,

      39.3431,

      3.6619,

      23870.1377
    ],
    [

      "2016-12-12",

      "KGW",

      "NBC",

    1143670,

    8.9098,

    52.1532,

    4.6468,

    53143.4968,

    10.5265,

    39.3431,

    4.1415,

    26996.3283

  ],

  [

    "2016-12-13",

    "KATU",

    "ABC",

    1143670,

    11.2027,

    48.4748,

    5.4305,

    62106.7625,

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Finding Broadcast Day Data

The following example shows how to use the Local Time Views endpoint to find broadcast day data for the Portland television market.

#	Qtr Hour	Market Name	Network	Series Name	Series #	Share	HUT	Rating	Avg Aud
01	00:00	Portland, OR	ABC	Jimmy Kimmel Live!	1854916	7.5731	23.211	1.7578	20103.3327
02	00:15	Portland, OR	ABC	Jimmy Kimmel Live!	1854916	7.4608	21.6312	1.6139	18457.2608
03	00:30	Portland, OR	ABC	ABC News Nightline	1842803	7.3763	20.4173	1.506	17224.1946
04	00:45	Portland, OR	ABC	ABC News Nightline	1842803	7.3171	19.4099	1.4202	16242.9524
05	01:00	Portland, OR	ABC	Paid Program	2339601	6.7921	18.4125	1.2506	14302.647
06	01:15	Portland, OR	ABC	Paid Program	2339601	6.3485	17.1944	1.0916	12484.2226
07	01:30	Portland, OR	ABC	Paid Program	2339601	6.2722	16.2686	1.0204	11669.9853
08	01:45	Portland, OR	ABC	Paid Program	2339601	6.2068	15.0976	0.9371	10717.0702
09	02:00	Portland, OR	ABC	ABC World News Now	1845572	6.4818	14.2382	0.9229	10554.8213
10	02:15	Portland, OR	ABC	ABC World News Now	1845572	6.9395	13.8697	0.9625	11007.6844
11	02:30	Portland, OR	ABC	ABC World News Now	1845572	7.4288	15.0143	1.1154	12756.4045
12	02:45	Portland, OR	ABC	ABC World News Now	1845572	7.5605	14.254	1.0777	12325.0941
13	03:00	Portland, OR	ABC	ABC World News Now	1845572	7.7779	13.7414	1.0688	12223.4667
14	03:15	Portland, OR	ABC	ABC World News Now	1845572	7.8426	12.61	0.9889	11310.27
15	03:30	Portland, OR	ABC	ABC World News Now	1845572	8.1259	11.8427	0.9623	11005.8168
16	03:45	Portland, OR	ABC	ABC World News Now	1845572	8.6238	11.2835	0.9731	11128.7186
17	04:00	Portland, OR	ABC	America This Morning	1848855	9.2361	11.2647	1.0404	11898.9109
18	04:15	Portland, OR	ABC	America This Morning	1848855	9.8028	11.3878	1.1163	12766.9837
19	04:30	Portland, OR	ABC	KATU News This Morn-	1912604	10.3381	12.1389	1.2549	14352.2717

				ing					
20	04:45	Portland, OR	ABC	KATU News This Morning	1912604	10.8476	12.5164	1.3577	15527.9644
21	05:00	Portland, OR	ABC	KATU News This Morning	1912604	11.3373	13.6184	1.544	17657.767
22	05:15	Portland, OR	ABC	KATU News This Morning	1912604	11.3884	19.1522	2.1811	24944.8857
23	05:30	Portland, OR	ABC	KATU News This Morning	1912604	11.4955	19.6689	2.261	25858.7205
24	05:45	Portland, OR	ABC	KATU News This Morning	1912604	11.7517	19.5738	2.3002	26307.1757
25	06:00	Portland, OR	ABC	KATU News This Morning	1912604	14.8656	20.708	3.0784	35206.4131
26	06:15	Portland, OR	ABC	KATU News This Morning	1912604	14.8236	22.3674	3.3157	37920.1935
27	06:30	Portland, OR	ABC	KATU News This Morning	1912604	15.3686	23.8421	3.6642	41906.2016
28	06:45	Portland, OR	ABC	KATU News This Morning	1912604	15.2556	24.4784	3.7343	42708.433
29	07:00	Portland, OR	ABC	KATU News Storm Coverage	2523945	14.9658	26.8853	4.0236	46016.6659
30	07:15	Portland, OR	ABC	KATU News Storm Coverage	2523945	14.5256	28.7905	4.182	47828.0839
31	07:30	Portland, OR	ABC	KATU News Storm Coverage	2523945	14.3609	31.0596	4.4605	51012.835
32	07:45	Portland, OR	ABC	KATU News Storm Coverage	2523945	14.2125	32.512	4.6208	52846.293
33	08:00	Portland, OR	ABC	KATU News Storm	2523945	14.2813	33.8281	4.8311	55251.5951

					Coverage				
34	08:15	Portland, OR	ABC	KATU News Storm Coverage	2523945	13.6764	34.7124	4.7474	54294.6084
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36	08:45	Portland, OR	ABC	KATU News Storm Coverage	2523945	13.29	35.4019	4.7049	53808.6969
37	09:00	Portland, OR	ABC	AM Northwest	1856327	11.6466	36.1439	4.2095	48143.0581
38	09:15	Portland, OR	ABC	AM Northwest	1856327	9.8464	35.9605	3.5408	40495.0757
39	09:30	Portland, OR	ABC	AM Northwest	1856327	9.1824	35.3329	3.2444	37105.4805
40	09:45	Portland, OR	ABC	AM Northwest	1856327	8.669	34.8294	3.0194	34531.6075
41	10:00	Portland, OR	ABC	The View	1848618	8.5932	35.5807	3.0575	34968.0915
42	10:15	Portland, OR	ABC	The View	1848618	8.1024	36.0225	2.9187	33379.9731
43	10:30	Portland, OR	ABC	The View	1848618	8.0583	35.9581	2.8976	33139.2503
44	10:45	Portland, OR	ABC	The View	1848618	7.882	35.9725	2.8354	32427.2204
45	11:00	Portland, OR	ABC	LIVE with Kelly	2068073	8.5141	36.3478	3.0947	35393.1263
46	11:15	Portland, OR	ABC	LIVE with Kelly	2068073	8.611	35.7874	3.0817	35244.0782
47	11:30	Portland, OR	ABC	LIVE with Kelly	2068073	8.4112	35.0496	2.9481	33716.3725
48	11:45	Portland, OR	ABC	LIVE with Kelly	2068073	8.1845	34.7863	2.8471	32561.2814
49	12:00	Portland, OR	ABC	The Chew	2055125	6.8502	36.3357	2.4891	28466.535
50	12:15	Portland, OR	ABC	The Chew	2055125	6.5882	36.249	2.3882	27312.6967
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52	12:45	Portland, OR	ABC	The Chew	2055125	7.4475	38.0298	2.8323	32391.8057
53	13:00	Portland, OR	ABC	General Hospital	1848542	6.0209	37.5985	2.2638	25889.8664

54	13:15	Portland, OR	ABC	General Hospital	1848542	5.4261	36.3391	1.9718	22550.8588
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62	15:15	Portland, OR	ABC	Afternoon Live	2505219	5.9798	34.7302	2.0768	23751.6423
63	15:30	Portland, OR	ABC	Afternoon Live	2505219	6.2443	35.232	2.2	25160.6802
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71	17:30	Portland, OR	ABC	ABC World News Tonight	2291199	16.4085	54.9644	9.0188	103145.4741
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75	18:30	Portland, OR	ABC	KATU News at 6	1912625	9.1697	53.7838	4.9318	56403.8559

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78	19:15	Portland, OR	ABC	Jeopardy!	1852419	11.3201	54.5272	6.1725	70593.1826
79	19:30	Portland, OR	ABC	Wheel of Fortune	1852434	9.4648	54.9531	5.2012	59484.3696
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85	21:00	Portland, OR	ABC	The Great American Baking Show	2521090	6.184	55.2168	3.4146	39051.6091
86	21:15	Portland, OR	ABC	The Great American Baking Show	2521090	6.4716	54.1668	3.5055	40090.8744
87	21:30	Portland, OR	ABC	The Great American Baking Show	2521090	6.5823	52.654	3.4659	39637.9764
88	21:45	Portland, OR	ABC	The Great American Baking Show	2521090	6.852	54.0781	3.7054	42377.6828
89	22:00	Portland, OR	ABC	What Would You Do?	2218068	5.5977	51.5271	2.8843	32987.2906
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92	22:45	Portland, OR	ABC	What Would You Do?	2218068	5.5758	40.3319	2.2488	25719.0451
93	23:00	Portland, OR	ABC	KATU News at 11	1912585	8.0538	37.1833	2.9947	34248.916
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}
```

Local Avail Views Endpoint

Note: This is a unique, customer specific endpoint. It is only used by [Mediaocean](#).

The Local Avail Views endpoint returns viewing information based on the avails provided in the request object. This endpoint accepts any number of local avail views and returns demo projections for each. An avail is defined by a single Share date range and, optionally, one to four Households Using Television (HUT) date ranges. If no HUT date ranges are specified, the Share date range is used as well. If multiple HUT date ranges are entered, they are averaged with equal weight.

The Local Avail Views endpoint also supports dominant programming. That is, if a title comprises 80% or more of the filtered data, viewing from other titles is excluded from the calculation.

Path

```
/tv/v4/local_avail_views
```

Request Object

The Local Avail Views request object uses the following keys:

Name	Type	R / O	Description
as_client_id	Array	Optional	The client identification code.
avails	List of JSON Objects	Required	Defines sets of quarter hours used in the main query. This parameter is described in more detail below.
dominant_series	Boolean	Optional	If true, turns on dominant programming logic (if a single series makes up 80% or more of the avail, the response filters to that series only). Defaults to false.
fields	Array of String	Required	The fields to include in the result dataset. Metrics used in this key must have a single value for all avails requested.
filters	Array of String	Required	Specifies the market, station, and date range for the avail. This parameter must contain the following: • One market ["eq", "market_no", 501].

- One station ["eq", "station_no", 4602].
- A date range. This can be for a single day, a range, or multiple date ranges.

This parameter can specify optional quarter hour and day of week combinations:

- One quarter hour "range" filter and one day of week "in" filter.
- One quarter hour "range" filter to retrieve the quarter hour for every day of the week.
- A multiple "or" filter on qtr_hour and day_of_week with "range" applied to qtr_hour and "in" applied to day_of_week.

group_by	Array of String	Required	The keys for grouping results. The response dataset will contain one row for each combination of values of the keys in group_by.
hut_dates	Array of String	Optional	Used in conjunction with the use_hut_dates flag to specify up to four date ranges.
include_non_final_data	Boolean	Optional	Indicates whether to include initial data in the response.
page_size	Integer	Optional	The number of records per page. The default is 10000.
pass_through_fields	Array of String	Optional	Used to specify custom fields in the request object. These custom fields must not conflict with existing, supported fields. Each avail must specify a value for these fields in the pass_through_values key. The API does not support filtering on these fields.
pass_through_values	Array of String	Optional	Corresponds to the pass_through_fields key to specify custom fields.
start_of_day	String	Required	Defines the start of the broadcast day. Supports any whole hour from 12AM ("00:00" or "0:00") to 8AM ("08:00" or "8:00"). Defaults to 6AM. Quarter hour ranges specified in the filters must not cross the start_of_day value.
timeout	Integer	Optional	The amount of time before the API switches to asynchronous mode. When timeout is set to 0, asynchronous mode is invoked immediately.
use_hut_dates	Boolean	Optional	When true, this key will calculate the avail using specified HUT dates.

Response Object

The result_columns key will contain all the metadata fields for the requested type, and the result_rows key will contain one row for each item of metadata that matches the search and filters, up to the specified limit.

The response object includes the following keys:

Name	Type	When	Description
api_request_id	String	Always	A unique request identifier.
api_time	Integer	Always	The elapsed time for the API request.
disclosures	String	Conditional	A subscriber notification about events or changes that affected reporting for the selected date range, market, and/or network.
final_date	Date	Always	The date in the system that reporting is locked.
message	String	On Failure	An error message. Additional keys may be included that are unique to the type of error and specific to each endpoint.
result_columns	Array	On Success	The column names of the result dataset.
result_rows	Array	On Success	The rows (each an array of values) of the result dataset that correspond to column names.
status	String	Always	A machine readable code equal to "success" if the request succeeded or a specific error code identifying the type of error.
warnings	String	Conditional	An error message generated when part of a request cannot be fulfilled.

Fields

The following fields are available with the Local Avail Views endpoint:

Name	Type	GroupBy	Filters	Description
day	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast date (with a 6:00 a.m. start) of a telecast. The format is YYYY-MM-DD.
day_of_week	String	False	any, eq, in, neq	The broadcast day of a telecast. For example, "tue".
days_of_week	Array of String	False	–	The broadcast days of a telecast. For example, "mon" and "thur".
half_hour	Time	True	any, eq, in, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00 or 30.
hour	Time	True	any, eq, in, neq, range	The start time for a telecast The format is HH:MM:SS (AM/PM). The MM value must be 00.
is_parent_plus	Boolean	False	any, eq, in, neq	A flag that indicates whether the data presented includes viewership from the parent plus a satellite station.
market_long_name	String	False	any, eq, in, neq	The full name of a television market. For example, "Reno CA-NV".
market_name	String	False	any, eq, in, neq	The name of a television market. For example, "Reno".
market_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television market. For example, "811".
month	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar month of a telecast. It must be the first day of the month. For example, "2016-08-01".
network_name	String	False	any, eq, in, neq	The name of a broadcast or cable network. For example, "Game Show Network".
network_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a broadcast or cable network. For example, "371" is the code for the Game Show Network. When requesting a network_no, if there are multiple stations for the same network in the market, they will be

				aggregated into a single number for the network, using the national_schedule time.
				This feature primarily supports the combining of the east and west feeds of a station into a single set of results. Broadcast and unified networks are not supported.
network_short_name	String	False	any, eq, in, neq	An abbreviation or acronym for the name of a network. For example, "GSN" is the short name for the Game Show Network.
network_type	String	False	any, eq, in, neq	The network category. This is either "Broadcast" or "Cable".
qtr_hour	Time	True	any, eq, gt, gte, in, lt, lte, neq, range	The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00, 15, 30, or 45.
quarter	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar quarter of a telecast. It must be the first day of January, April, July, or October. For example, "2016-07-01".
series_name	String	False	any, eq, in, neq	The title of a television series. For example, "Saturday Night Live".
series_name_or_various	String	False	–	The title of a television series or "various" if the title is not available.
series_names	Array of String	False	–	A list of television series.
station_call_sign	String	False	any, eq, in, neq	The unique code assigned to a television station. For example, "KATU".
station_call_sign_non_plus	String	False	any, eq, in, neq	If the "is_parent_plus" field is True it will return the call sign without the additional plus sign that is added for reporting in our StationView product. If the "is_parent_plus" field is False it will match the "station_call_sign" exactly. The field was created so that call signs returned using it will always be restricted to four characters and can be easily consumed by our Third Party Provider (TPP) partners.
station_name	String	False	any, eq, in, neq	The name of a television station. For example, "WABC New York, N.Y. (ABC)".

station_no	Integer	True	any, eq, in, neq	The unique identification number assigned to a television station. For example, "4201".
week	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The broadcast week of a telecast. It must begin on a Monday. The format is YYYY-MM-DD.
year	Date	True	any, eq, gt, gte, in, lt, lte, neq, range	The calendar year of a telecast. It must be the first day of the year. For example, "2016-01-01".

Metrics

The following metrics are available with the Local Avail Views endpoint:

Name	Type	Demos	Streams
available_hours	Double	False	—
avg_aud	Double	True	live
demo_data_is_complete	Boolean	True	—
demo_index	Double	True	live
hard_wired_cable_factor	Double	False	—
hut	Double	True	—
meets_demo_threshold	Boolean	True	live
meets_high_quality _demo_threshold	Boolean	True	live
num_hours	Double	False	live
num_hut	Double	True	—
rating	Double	True	live
share	Double	True	—
universe	Double	True	—

Finding Station Avails

The following example shows how to use the [Local Avail Views](#) endpoint to find station rating avails for combinations of date ranges, stations, and time slots.

#	Mkt #	Market Name	Call Sign	Series Name	Rating	Share	HUT	Num HUT	A25-54 Rating	A25-54 Share	A25-54 HUT
01	501	New York	WABC	ABC News	3.7951	7.9699	47.6175	3543820.3301	3.353	10.2328	32.7674
02	501	New York	WABC	ABC News	3.7951	7.9699	47.6175	3543820.3301	3.353	10.2328	32.7674
03	602	Chicago	WMAQ	Various	3.319	5.4699	60.6786	2109945.4465	2.6837	7.3561	36.4818
04	820	Portland, OR	KATU	Various	4.4682	8.5405	52.3175	603780.5469	3.6326	12.8845	28.1931

Request

```
{
  "fields": [
    "market_no",
    "market_name",
    "station_call_sign",
    "series_name_or_various",
    "rating",
    "share",
    "hut",
    "num_hut",
    {
      "alias": "A25-54 rating",
```

```
      "field": "rating",

      "demo_no": 651

    },

    {

      "alias": "A25-54 share",

      "field": "share",

      "demo_no": 651

    },

    {

      "alias": "A25-54 hut",

      "field": "hut",

      "demo_no": 651

    }

    ],

  "avails": [

    {

      "filters": [

        ["range", "day", "2015-04-27", "2015-05-31"],

        ["eq", "market_no", 501],

        ["eq", "station_call_sign", "WABC"],

        ["range", "qtr_hour", "18:30", "19:00"],

        ["in", "day_of_week", "Mon", "Tue", "Wed", "Thu", "Fri"]

      ]

    },

    {

      "filters": [
```

```
        ["range", "day", "2015-04-27", "2015-05-31"],

        ["eq", "market_no", 501],

        ["eq", "station_no", 4201],

        ["range", "qtr_hour", "18:30", "19:00"],

        ["in", "day_of_week", "Mon", "Tue", "Wed", "Thu", "Fri"]

      ]

    },

      {

      "filters": [

      ["range", "day", "2015-04-27", "2015-05-31"],

      ["eq", "market_no", 602],

      ["eq", "station_call_sign", "WMAQ"],

      ["range", "qtr_hour", "18:30", "19:00"]

      ]

    },

      {

      "filters": [

      ["range", "day", "2015-04-27", "2015-05-31"],

      ["eq", "market_no", 820],

      ["eq", "station_call_sign", "KATU"],

      ["range", "qtr_hour", "18:30", "19:00"]

      ]

    }

  ]

}
```

Response

```
{
  "next_page_token": null,
  "api_version": "885655ce",
  "result_rows": [
    [
      501,
      "New York",
      "WABC",
      "ABC World News Tonight with David Muir",
      3.7951,
      7.9699,
      47.6175,
      3543820.3301,
      3.353,
      10.2328,
      32.7674
    ],
    [
      501,
      "New York",
      "WABC",
      "ABC World News Tonight with David Muir",
      3.7951,
      7.9699,
```

    47.6175,

    3543820.3301,

    3.353,

    10.2328,

    32.7674
  ],
  [
    602,

    "Chicago",

    "WMAQ",

    "Various",

    3.319,

    5.4699,

    60.6786,

    2109945.4465,

    2.6837,

    7.3561,

    36.4818
  ],
  [
    820,

    "Portland, OR",

    "KATU",

    "Various",

    4.4682,

    8.5405,

```
      52.3175,

      603780.5469,

      3.6326,

      12.8845,

      28.1931

    ]

  ],

  "status": "success",

  "api_request_id": "7UYsNrMiTR3P",

  "api_time": 2428,

  "final_date": "2015-12-05",

  "result_columns": [

    "market_no",

    "market_name",

    "station_call_sign",

    "series_name_or_various",

    "rating",

    "share",

    "hut",

    "num_hut",

    "A25-54 rating",

    "A25-54 share",

    "A25-54 hut"

  ]

}
```

Metadata Endpoint

The Metadata endpoint allows you to retrieve metadata for lookups or to populate your local database. This endpoint does not return any data or metrics.

It is intended to be used to discover what metadata is available in the database that can then be used with the following endpoints:

National Airing Views

National Time Views

Local Airing Views

Local Avail Views

Local Time Views

Path

```
/tv/v4/metadata/<type>
```

In the path, <type> specifies the metadata being looked up in the API request. Valid types supported by the endpoint are:

- demographics
- markets
- networks
- schedules (local_schedule and national_schedule)
- series
- stations

For example, if you want to look up a series number (series_no), you would use /tv/v4/metadata/series.

Request Object

The Metadata request object uses the following keys:

Name	Type	Required	Description

Filters	Array of String	No	Describes the desired results. Any field associated with the type may be included.

Response Object

The result_columns key will contain all the metadata fields for the requested type, and the result_rows key will contain one row for each item of metadata that matches the search and filters, up to the specified limit.

The response object includes the following keys:

Name	Type	When	Description
api_request_id	String	Always	A unique request identifier.
api_time	Integer	Always	The elapsed time for the API request.
disclosures	String	Conditional	A subscriber notification about events or changes that affected reporting for the selected date range, market, and/or network.
final_date	Date	Always	The date in the system that reporting is locked.
message	String	On Failure	An error message. Additional keys may be included that are unique to the type of error and specific to each endpoint.
result_columns	Array	On Success	The column names of the result dataset.
result_rows	Array	On Success	The rows (each an array of values) of the result dataset that correspond to column names.
status	String	Always	A machine readable code equal to "success" if the request succeeded or a specific error code identifying the type of error.
warnings	String	Conditional	An error message generated when part of a request cannot be fulfilled.

Metadata Schema

The fields associated with [Demographics](), [Markets](), [Networks](), Schedules ([Local]() and [National]()), [Series](), and [Stations]() are described in this section.

Demographics

The following fields are available with this endpoint: **/tv/v4/metadata/demographics** For an example, see [Finding a Demographic Tag]()

Field Name	Type	Filters	Description
demo_create_date	Timestamp	—	The date that the demographic was created. For example, "2012-03-15T11:20:48.000".
demo_group_name	String	eq, in, neq	The name of a demographic group. For example, "Age Range".
demo_group_no	Integer	eq, in, neq	The unique identification number assigned to a demographic group. For example, "341".
demo_group_owner_name	String	eq, in, neq	A global "Comscore demographics" identifier.
demo_group_owner_no	Integer	eq, in, neq	A global identification number (152) for the group owner.
demo_group_sort_order	Integer	eq, gt, gte, in, lt, lte, neq, range	A number assigned to a demographic group for sorting purposes. For example, "27100".
demo_name	String	eq, in, neq	The name of a demographic. For example, "M18-24".
demo_national	Boolean	eq, in, neq	A flag that indicates if the demographic is national.
demo_no	Integer	eq, in, neq	The unique identification number assigned to a demographic. For example, "3632".
demo_sort_order	Integer	eq, gt, gte, in, lt, lte, neq, range	A number assigned to a demographic for sorting purposes. For example, "11".
demo_tier_a	Boolean	eq, in, neq	A flag that indicates if a demographic is included in Tier

				A.
demo_tier_b	Boolean	eq, in, neq		A flag that indicates if a demographic is included in Tier B.
demo_tier_c	Boolean	eq, in, neq		A flag that indicates if a demographic is included in Tier C.
demo_tier_d	Boolean	eq, in, neq		A flag that indicates if a demographic is included in Tier D.
demo_tier_e	Boolean	eq, in, neq		A flag that indicates if a demographic is included in Tier E.
ox_demo_code	String	–		The abbreviated name of a demographic. For example, "M1849".

Markets

The following fields are available with this endpoint: **/tv/v4/metadata/markets** For an example, see [Finding a Market Number](#)

Field Name	Type	Filters	Description
daypart_offset_from_eastern_hours	Integer	eq, in, neq	The number of hours that a market deviates from Eastern Standard Time (EST). For example, "-1".
is_limited_data_market	Boolean	eq, in, neq	A flag that indicates whether there is limited data for a market.
market_long_name	String	eq, in, neq	The full name of a television market. For example, "Reno CA-NV".
market_name	String	eq, in, neq	The name of a television market. For example, "Reno".
market_no	Integer	eq, in, neq	The unique identification number assigned to a television market. For example, "811".

Networks

The following fields are available with this endpoint: **/tv/v4/metadata/networks** For an example, see [Finding a Network Number](#)

Field Name	Type	Filters	Description
category_names	Array of String	–	A list of network categories.
network_name	String	eq, in, neq	The name of a broadcast or cable network. For example, "Game Show Network".
network_no	Integer	eq, in, neq	The unique identification number assigned to a broadcast or cable network. For example, "371" is the code for the Game Show Network.
network_short_name	String	eq, in, neq	An abbreviation or acronym for the name of a network. For example, "GSN" is the short name for the Game Show Network.
network_type	String	eq, in, neq	The network category. This is either "Broadcast" or "Cable".

Schedule Local

The following fields are available with this endpoint: **/tv/v4/metadata/local_schedule** For an example, see [Finding a Local Schedule](#)

Field Name	Type	Filters	Description
airedatetime	Timestamp	eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast begins. For example, "2016-01-01T08:12:00.000".
duration_minutes	Integer	eq, gt, gte, in, lt, lte, neq, range	The length of a telecast in minutes.
episode_no	Integer	eq, in, neq	The chronological number assigned to an episode of a television series.
episode_number	String	eq, in, neq	The chronological number assigned to an episode of a television series.
episode_syn-dication_type_no	Integer	eq, in, neq	A number that identifies the type of syndication.
episode_title	String	eq, in, neq	The name of an episode of a television series.
is_new_airing	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is airing

			for the first time.
is_repeat_airing	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is a rerun.
is_season_finale	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is the last for the current season.
is_season_premiere	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is the first in a new season.
is_series_finale	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is the last one ever.
is_series_premiere	Integer	eq, in, neq	A flag that indicates if an episode of a television series is the first one ever.
is_special_airing	Boolean	eq, in, neq	A flag that indicates if a telecast falls into a unique or one time category.
network_is_hidden	Boolean	eq, in, neq	A flag that indicates if a network is hidden.
network_name	String	eq, in, neq	The name of a broadcast or cable network. For example, "Game Show Network".
network_short_name	String	eq, in, neq	An abbreviation or acronym for the name of a network. For example, "GSN" is the short name for Game Show Network.
network_type_no	Integer	eq, in, neq	The identification number assigned to the broadcast and cable network categories.
scheduled_national_airdatetime	Timestamp	eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast is scheduled to begin.
series_genre	String	–	The primary category assigned to a television series. For example, "Comedy".
series_genre_no	Integer	eq, in, neq	The unique identification number for the genre. For example, "3".
series_name	String	eq, in, neq	The title of a television series. For example, "The Big Bang Theory".

series_name_15	String	eq, in, neq	A shortened version of the television series title. For example, "Big Bang Theory".
series_no	Integer	eq, in, neq	The unique identification number assigned to a television series. For example, "2291199".
series_subgenre	String	–	The secondary category assigned to a television series. For example, "Sitcom".
series_subgenre_no	Integer	eq, in, neq	The unique identification number for the subgenre. For example, "46".
series_syndication_type	String	–	The type of syndication applicable to a television series.
station_affiliated_network_no	Integer	eq, in, neq	The identification number of the related broadcast or cable network. For example, "3" for ABC. This can be passed in as the network_no parameter in the reporting endpoints.
station_affiliation_from_date	Timestamp	eq, gt, gte, in, lt, lte, neq, range	The date and time that a television station become affiliated with a broadcast or cable network.
station_affiliation_to_date	Timestamp	eq, gt, gte, in, lt, lte, neq, range	The date and time that a television station stopped being affiliated with a broadcast or cable network.
station_call_sign	String	eq, in, neq	The unique four-letter combination assigned to a television station. For example, "KATU".
station_location	String	eq, in, neq	The geographic location of a television station.
station_name	String	eq, in, neq	The name of a television station. For example, "WABC New York, N.Y. (ABC)".
station_no	Integer	eq, in, neq	The unique identification number assigned to a television station. For example, "4201".
station_primary_market_no	Integer	eq, in, neq	The unique identification number assigned to a television market. For example, "811".

Schedule National

The following fields are available with this endpoint: **/tv/v4/metadata/national_schedule** For an example, see [Finding a National Schedule](#)

Field Name	Type	Filters	Description
duration_minutes	Boolean	eq, gt, gte, in, lt, lte, neq, range	The length of a telecast in minutes.
episode_no	Integer	eq, in, neq	The chronological number assigned to an episode of a television series.
episode_number	String	eq, in, neq	The chronological number assigned to an episode of a television series.
episode_syndication_ type_no	Integer	eq, in, neq	A number that identifies the type of syndication.
episode_title	String	eq, in, neq	The name of an episode of a television series.
is_new_airing	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is airing for the first time.
is_repeat_airing	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is a rerun.
is_season_finale	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is the last for the current season.
is_season_premiere	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is the first in a new season.
is_series_finale	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is the last one ever.
is_series_premiere	Boolean	eq, in, neq	A flag that indicates if an episode of a television series is the first one ever.
is_special_airing	Boolean	eq, in, neq	A flag that indicates if a telecast falls into a unique or one time category.
national_airdatetime	Timestamp	eq, gt, gte, in, lt, lte, neq, range	The date and time that a telecast begins nation-

				ally. For example, "2016-01-01T08:12:00.000".
network_is_hidden	Boolean	eq, in, neq		A flag that indicates if a network is hidden.
network_name	String	eq, in, neq		The name of a broadcast or cable network. For example, "Game Show Network".
network_no	Integer	eq, in, neq		The unique identification number assigned to a broadcast or cable network. For example, "371" is the code for Game Show Network.
network_short_name	String	eq, in, neq		An abbreviation or acronym for the name of a network. For example, "GSN" is the short name for the Game Show Network.
network_type_no	Integer	eq, in, neq		The identification number assigned to the broadcast and cable network categories.
series_genre	String	–		The primary category assigned to a television series. For example, "Comedy".
series_genre_no	Integer	eq, in, neq		The unique identification number for the genre. For example, "3".
series_name	String	eq, in, neq		The title of a television series. For example, "The Big Bang Theory".
series_name_15	String	eq, in, neq		A shortened version of the television series title. For example, "Big Bang Theory".
series_no	Integer	eq, in, neq		The unique identification number assigned to a television series. For example, "2291199".
series_subgenre	String	–		The secondary category assigned to a television series. For example, "Sitcom".
series_subgenre_no	Integer	eq, in, neq		The unique identification number for the subgenre. For example, "46".
series_syndication_type	String	–		The type of syndication applicable to a television series.

Series

The following fields are available with this endpoint : **/tv/v4/metadata/series**. For an example, see [Finding a Series](#)

Field Name	Type	Filters	Description
series_genre	String	–	The primary category assigned to a television series. For example, "Comedy".
series_genre_no	Integer	eq, in, neq	The unique identification number for the genre. For example, "3".
series_name	String	eq, in, neq	The title of a television series. For example, "The Big Bang Theory".
series_name_15	String	eq, in, neq	A shortened version of the television series title. For example, "Big Bang Theory".
series_no	Integer	eq, in, neq	The unique identification number assigned to a television series. For example, "2291199".
series_subgenre	String	–	The secondary category assigned to a television series. For example, "Sitcom".
series_subgenre_no	Integer	eq, in, neq	The unique identification number for the subgenre. For example, "46".
series_syndication_type	String	–	The syndication category.

Stations

The following fields are available with this endpoint: **/tv/v4/metadata/stations**. For an example, see [Finding a Station](#)

Field Name	Type	Filters	Description
market_nos	Array of Integer	contains, contains_any	A list of market numbers.
network_is_hidden	Boolean	eq, in, neq	A flag that indicates if a network is hidden.
network_name	String	eq, in, neq	The name of a broadcast or cable network. For example, "Game Show Network".
network_short_name	String	eq, in, neq	An abbreviation or acronym for the name of a network. For example, "GSN" is the short

				name for the Game Show Network.
network_type_no	Integer	eq, in, neq		The identification number assigned to the broadcast and cable network categories.
station_affiliated_network_no	Integer	eq, in, neq		The identification number of the related broadcast or cable network. For example, "3" for ABC. This can be passed in as the network_no parameter in the reporting end-points.
station_affiliation_from_date	Timestamp	eq, gt, gte, in, lt, lte, neq, range		The date and time that a television station become affiliated with a broadcast or cable network.
station_affiliation_to_date	Timestamp	eq, gt, gte, in, lt, lte, neq, range		The date and time that a television station stopped being affiliated with a broadcast or cable network.
station_call_sign	String	eq, in, neq		The unique four-letter combination assigned to a television station. For example, "KATU".
station_location	String	eq, in, neq		The geographic location of a television sta-tion.
station_medium_id	String	eq, in, neq		The unique identifier assigned to a com-munication outlet or tool used to store and deliver information.
station_medium_no	Integer	eq, in, neq		The number assigned to a specific station medium.
station_name	String	eq, in, neq		The name of a television station. For example, "WABC New York, N.Y. (ABC)".
station_no	Integer	eq, in, neq		The unique identification number assigned to a television station. For example, "4201".
station_primary_market_no	Integer	eq, in, neq		The unique identification number assigned

Market Tiers

Prior to Broadcast September 2016, Comscore reporting of demographic segments varied by market tier. Effective with Broadcast September 2016, market Tiers A, B, C, and D were replaced by Tier E to standardize demographic availability across all markets, except the five markets listed below, where demographic segments remain unavailable.

Market Name	Market #
Alpena, MI	583
Fairbanks	745
Glendive	798
Juneau	747
Zanesville	596

Please note that demographic segments were not reported for Bowling Green, Greenwood-Grenville, Jackson, and Mankato until 2016, as described below.

Market Name	Market #	Demo Reporting Start Date	Market Tier
Bowling Green	736	4/25/2016	D
Bowling Green	736	8/29/2016	E
Greenwood-Greenville	647	8/29/2016	E
Jackson, TN	639	8/29/2016	E
Mankato	596	8/29/2016	E

Tier Assignment

Market #	DMA Name	Tier A	Tier B	Tier C	Tier D	Tier E
500	Portland / Auburn		X			X
501	New York	X				X

502	Binghamton				X	X
503	Macon		X			X
504	Philadelphia	X				X
505	Detroit	X				X
506	Boston	X				X
507	Savannah		X			X
508	Pittsburgh	X				X
509	Ft. Wayne		X			X
510	Cleveland	X				X
511	Washington DC	X				X
512	Baltimore	X				X
513	Flint / Saginaw / Bay City	X				X
514	Buffalo	X				X
515	Cincinnati	X				X
516	Erie			X		X
517	Charlotte	X				X
518	Greensboro / High Point / Winston-Salem	X				X
519	Charleston			X		X
520	Augusta / Aiken			X		X
521	Providence / New Bedford		X			X
522	Columbus (Opelika)				X	X
523	Burlington / Plattsburg		X			X
524	Atlanta	X				X

525	Albany			X		X
526	Utica				X	X
527	Indianapolis	X				X
528	Miami / Ft. Lauderdale	X				X
529	Louisville	X				X
530	Tallahassee / Thomasville		X			X
531	Tri-Cities			X		X
532	Albany / Schenectady / Troy		X			X
533	Hartford / New Haven	X				X
534	Orlando / Daytona Beach / Melbourne	X				X
535	Columbus	X				X
536	Youngstown			X		X
537	Bangor			X		X
538	Rochester		X			X
539	Tampa-St. Pete (Sarasota)	X				X
540	Traverse City / Cadillac		X			X
541	Lexington	X				X
542	Dayton		X			X
543	Springfield / Holyoke				X	X
544	Norfolk / Portsmouth / Newport News	X				X
545	Greenville / New Bern / Washington		X			X
546	Columbia		X			X
547	Toledo		X			X

548	West Palm Beach / Ft. Pierce		X			X
549	Watertown				X	X
550	Wilmington				X	X
551	Lansing			X		X
552	Presque Isle				X	X
553	Marquette				X	X
554	Wheeling / Steubenville				X	X
555	Syracuse			X		X
556	Richmond / Petersburg		X			X
557	Knoxville		X			X
558	Lima				X	X
559	Bluefield / Beckley / Oak Hill				X	X
560	Raleigh-Durham (Fayetteville)	X				X
561	Jacksonville		X			X
563	Grand Rapids / Kalamazoo / Battle Creek	X				X
564	Charleston / Huntington	X				X
565	Elmira (Corning)				X	X
566	Harrisburg / Lancaster / Lebanon	X				X
567	Greenville / Spartanburg / Asheville	X				X
569	Harrisonburg				X	X
570	Myrtle Beach / Florence			X		X
571	Ft. Meyers		X			X
573	Roanoke / Lynchburg	X				X

574	Johnstown / Altoona / State College	X				X
575	Chattanooga		X			X
576	Salisbury				X	X
577	Wilkes-Barre / Scranton / Hazelton	X				X
581	Terre Haute			X		X
582	Lafayette				X	X
583	Alpena	No Demos	No Demos	No Demos	No Demos	No Demos
584	Charlottesville				X	X
588	South Bend / Elkhart	X				X
592	Gainesville		X			X
596	Zanesville	No Demos	No Demos	No Demos	No Demos	No Demos
597	Parkersburg				X	X
598	Clarksburg / Weston			X		X
600	Corpus Christi				X	
602	Chicago	X				X
603	Joplin / Pittsburg			X		X
604	Columbia / Jefferson City		X			X
605	Topeka		X			X
606	Dothan				X	X
609	St. Louis	X				X
610	Rockford			X		X
611	Rochester / Mason City / Austin				X	X
612	Shreveport		X			X

613	Minneapolis / St. Paul	X				X
616	Kansas City	X				X
617	Milwaukee		X			X
618	Houston	X				X
619	Springfield	X				X
622	New Orleans	X				X
623	Dallas / Ft. Worth	X				X
624	Sioux City			X		X
625	Waco / Temple / Bryan		X			X
626	Victoria				X	X
627	Wichita Falls / Lawton		X			X
628	Monroe / El Dorado		X			X
630	Birmingham (Tuscaloosa)	X				X
631	Ottumwa / Kirksville				X	X
632	Paducah / Cape Girardeau / Harrisburg	X				X
633	Odessa / Midland			X		X
634	Amarillo		X			X
635	Austin		X			X
636	Harlingen-Weslaco-Brownsville			X		X
637	Cedar Rapids / Waterloo	X				X
638	St. Joseph				X	X
639	Jackson	No Demos	No Demos	No Demos	No Demos	X
640	Memphis		X			X

641	San Antonio	X				X
642	Lafayette		X			X
643	Lake Charles				X	X
644	Alexandria				X	X
647	Greenwood / Greenville	No Demos	No Demos	No Demos	No Demos	X
648	Champaign / Springfield / Decatur		X			X
649	Evansville		X			X
650	Oklahoma City	X				X
651	Lubbock			X		X
652	Omaha	X				X
656	Panama City				X	X
657	Sherman / Ada			X		X
658	Green Bay / Appleton	X				X
659	Nashville	X				X
661	San Angelo				X	X
662	Abilene / Sweetwater			X		X
669	Madison	X				X
670	Ft. Smith		X			X
671	Tulsa	X				X
673	Columbus / Tupelo / West Point / Houston				X	X
675	Peoria-Bloomington			X		X
676	Duluth-Superior			X		X
678	Wichita / Hutchinson	X				X

679	Des Moines / Ames	X				X
682	Davenport / Rock Island / Moline		X			X
686	Mobile / Pensacola	X				X
687	Minot / Bismarck / Dickinson			X		X
691	Huntsville / Decatur		X			X
692	Beaumont / Port Arthur			X		X
693	Little Rock / Pine Bluff	X				X
698	Montgomery / Selma		X			X
702	La Crosse / Eau Claire			X		X
705	Wausau / Rhinelander			X		X
709	Tyler / Longview		X			X
710	Hattiesburg / Laurel				X	X
711	Meridian				X	X
716	Baton Rouge		X			X
717	Quincy / Hannibal / Keokuk			X		X
718	Jackson		X			X
722	Lincoln / Hastings	X				X
724	Fargo / Valley City		X			X
725	Sioux Falls (Mitchell)		X			X
734	Jonesboro				X	X
736	Bowling Green				X	X
737	Mankato	No Demos	No Demos	No Demos	No Demos	X
740	North Platte				X	X

743	Anchorage				X	X
744	Honolulu				X	X
745	Fairbanks	No Demos	No Demos	No Demos	No Demos	No Demos
746	Biloxi / Gulfport				X	X
747	Juneau	No Demos	No Demos	No Demos	No Demos	No Demos
749	Laredo				X	X
751	Denver	X				X
752	Colorado Springs-Pueblo		X			X
753	Phoenix	X				X
754	Butte / Bozeman				X	X
755	Great Falls				X	X
756	Billings				X	X
757	Boise		X			X
758	Idaho Falls / Pocatello			X		X
759	Cheyenne / Scottsbluff				X	X
760	Twin Falls				X	X
762	Missoula				X	X
764	Rapid City				X	X
765	El Paso (Los Cruces)			X		X
766	Helena				X	X
767	Casper / Riverton				X	X
770	Salt Lake City	X				X
771	Yuma / El Centro				X	X

		Col1	Col2	Col3	Col4	Col5
773	Grand Junction / Montrose				X	X
789	Tucson		X			X
790	Albuquerque / Santa Fe	X				X
798	Glendive	X				X
800	Bakersfield				X	X
801	Eugene		X			X
802	Eureka				X	X
803	Los Angeles	X				X
804	Palm Springs				X	X
807	San Francisco / Oakland / San Jose	X				X
810	Yakima		X			X
811	Reno		X			X
813	Medford-Klamath Falls			X		X
819	Seattle / Tacoma	X				X
820	Portland	X				X
821	Bend				X	X
825	San Diego	X				X
828	Monterey-Salinas			X		X
839	Las Vegas	X				X
855	Santa Barbara / San Luis Obispo		X			X
862	Sacramento / Stockton / Modesto	X				X
866	Fresno / Visalia	X				X
868	Chico / Redding		X			X
881	Spokane		X			X

Market Numbers

A partial list of television markets is shown below. Refer to [Finding a Market Number](#) for more information.

Market Name	Market #	States
Abilene / Sweetwater	662	Texas
Albany	525	Georgia
Albany / Schenectady / Troy	532	Massachusetts / New York / Vermont
Albuquerque / Santa Fe	790	Arizona / Colorado / New Mexico
Alexandria	644	Louisiana
Alpena	583	Michigan
Amarillo	634	Kansas / New Mexico / Oklahoma / Texas
Anchorage	743	Alaska
Atlanta	524	Alabama / Georgia / North Carolina
Augusta / Aiken	520	Georgia / South Carolina
Austin	635	Texas
Bakersfield	800	California
Baltimore	512	Maryland
Bangor	537	Maine
Baton Rouge	716	Louisiana / Mississippi
Beaumont / Port Arthur	692	Texas
Bend	821	Oregon
Billings	756	Montana / Wyoming
Biloxi / Gulfport	746	Mississippi
Binghamton	502	New York

Birmingham (Tuscaloosa)	630	Alabama
Bluefield / Beckley / Oak Hill	559	Virginia / West Virginia
Boise	757	Idaho / Oregon
Boston	506	Massachusetts / New Hampshire / Vermont
Bowling Green	736	Kentucky
Buffalo	514	New York / Pennsylvania
Burlington / Plattsburg	523	New Hampshire / New York / Vermont
Butte / Bozeman	754	Montana
Casper / Riverton	767	Wyoming
Cedar Rapids / Waterloo	637	Iowa / Wisconsin
Champaign / Springfield / Decatur	648	Illinois
Charleston	519	South Carolina
Charleston / Huntington	564	Kentucky / Ohio / West Virginia
Charlotte	517	North Carolina / South Carolina
Charlottesville	584	Virginia
Chattanooga	575	Alabama / Georgia / North Carolina / Tennessee
Cheyenne / Scottsbluff	759	Nebraska / Wyoming
Chicago	602	Illinois / Indiana
Chico / Redding	868	California
Cincinnati	515	Indiana / Kentucky / Ohio
Clarksburg / Weston	598	West Virginia
Cleveland	510	Ohio
Colorado Springs-Pueblo	752	Colorado

Columbia	546	South Carolina
Columbia / Jefferson City	604	Missouri
Columbus	535	Ohio
Columbus (Opelika)	522	Alabama / Georgia
Columbus / Tupelo / West Point / Houston	673	Alabama / Mississippi
Corpus Christi	600	Texas
Dallas / Ft. Worth	623	Texas
Davenport / Rock Island / Moline	682	Illinois / Iowa
Dayton	542	Indiana / Ohio
Denver	751	Colorado / Nebraska / Wyoming
Des Moines / Ames	679	Iowa / Missouri
Detroit	505	Michigan
Dothan	606	Alabama / Georgia
Duluth-Superior	676	Michigan / Minnesota / Wisconsin
El Paso (Los Cruces)	765	New Mexico / Texas
Elmira (Corning)	565	New York / Pennsylvania
Erie	516	Pennsylvania
Eugene	801	Oregon
Eureka	802	California
Evansville	649	Illinois / Indiana / Kentucky
Fairbanks	745	Alaska
Fargo / Valley City	724	Minnesota / North Dakota
Flint / Saginaw / Bay City	513	Michigan

Fresno / Visalia	866	California
Ft. Meyers	571	Florida
Ft. Smith	670	Arkansas / Oklahoma
Ft. Wayne	509	Indiana / Ohio
Gainesville	592	Florida
Glendive	798	Montana
Grand Junction / Montrose	773	Colorado
Grand Rapids / Kalamazoo / Battle Creek	563	Michigan
Great Falls	755	Montana
Green Bay / Appleton	658	Michigan / Wisconsin
Greensboro / High Point / Winston-Salem	518	North Carolina / Virginia
Greenville / New Bern / Washington	545	North Carolina
Greenville / Spartanburg / Asheville	567	North Carolina / South Carolina
Greenwood / Greenville	647	Arkansas / Mississippi
Harlingen-Weslaco-Brownsville	636	Texas
Harrisburg / Lancaster / Lebanon	566	Pennsylvania
Harrisonburg	569	Virginia / West Virginia
Hartford / New Haven	533	Connecticut
Hattiesburg / Laurel	710	Mississippi
Helena	766	Montana
Honolulu	744	Hawaii
Houston	618	Texas
Huntsville / Decatur	691	Alabama / Tennessee

Idaho Falls / Pocatello	758	Idaho / Wyoming
Indianapolis	527	Indiana
Jackson	718	Mississippi
Jackson	639	Tennessee
Jacksonville	561	Florida / Georgia
Johnstown / Altoona / State College	574	Pennsylvania
Jonesboro	734	Arkansas / Missouri
Joplin / Pittsburg	603	Kansas / Missouri / Oklahoma
Juneau	747	Alaska
Kansas City	616	Kansas / Missouri
Knoxville	557	Kentucky / Tennessee
La Crosse / Eau Claire	702	Minnesota / Wisconsin
Lafayette	582	Indiana
Lafayette	642	Louisiana
Lake Charles	643	Louisiana
Lansing	551	Michigan
Laredo	749	Texas
Las Vegas	839	Nevada
Lexington	541	Kentucky
Lima	558	Ohio
Lincoln / Hastings	722	Nebraska
Little Rock / Pine Bluff	693	Arkansas
Los Angeles	803	California

Louisville	529	Indiana / Kentucky
Lubbock	651	Texas
Macon	503	Georgia
Madison	669	Wisconsin
Mankato	737	Iowa / Minnesota
Marquette	553	Michigan
Medford-Klamath Falls	813	California / Oregon
Memphis	640	Arkansas / Mississippi / Missouri / Tennessee
Meridian	711	Alabama / Mississippi
Miami / Ft. Lauderdale	528	Florida
Milwaukee	617	Wisconsin
Minneapolis / St. Paul	613	Minnesota / Wisconsin
Minot / Bismarck / Dickinson	687	Montana / North Dakota / South Dakota
Missoula	762	Montana
Mobile / Pensacola	686	Alabama / Florida / Mississippi
Monroe / El Dorado	628	Arkansas / Louisiana
Monterey-Salinas	828	California
Montgomery / Selma	698	Alabama
Myrtle Beach / Florence	570	North Carolina / South Carolina
Nashville	659	Kentucky / Tennessee
New Orleans	622	Louisiana / Mississippi
New York	501	Connecticut / New Jersey / New York / Pennsylvania
Norfolk / Portsmouth / Newport News	544	North Carolina / Virginia

North Platte	740	Nebraska
Odessa / Midland	633	New Mexico / Texas
Oklahoma City	650	Oklahoma
Omaha	652	Nebraska
Orlando / Daytona Beach / Melbourne	534	Florida
Ottumwa / Kirksville	631	Iowa / Missouri
Paducah / Cape Girardeau / Harrisburg	632	Illinois / Kentucky / Missouri
Palm Springs	804	California
Panama City	656	Florida
Parkersburg	597	Ohio / West Virginia
Peoria-Bloomington	675	Illinois
Philadelphia	504	Delaware / New Jersey / Pennsylvania
Phoenix	753	Arizona / California
Pittsburgh	508	Maryland / Pennsylvania / West Virginia
Portland	820	Oregon / Washington
Portland / Auburn	500	Maine / New Hampshire / Vermont
Presque Isle	552	Maine
Providence / New Bedford	521	Massachusetts / Rhode Island
Quincy / Hannibal / Keokuk	717	Illinois / Iowa / Missouri
Raleigh-Durham (Fayetteville)	560	North Carolina / Virginia
Rapid City	764	Montana / Nebraska / South Dakota / Wyoming
Reno	811	Nevada
Richmond / Petersburg	556	Virginia

Roanoke / Lynchburg	573	Virginia / West Virginia
Rochester	538	New York
Rochester / Mason City / Austin	611	Iowa / Minnesota
Rockford	610	Illinois
Sacramento / Stockton / Modesto	862	California
Salisbury	576	Delaware / Maryland
Salt Lake City	770	Colorado / Idaho / Nevada / Utah / Wyoming
San Angelo	661	Texas
San Antonio	641	Texas
San Diego	825	California
San Francisco / Oakland / San Jose	807	California
Santa Barbara / San Luis Obispo	855	California
Savannah	507	Georgia / South Carolina
Seattle / Tacoma	819	Washington
Sherman / Ada	657	Oklahoma / Texas
Shreveport	612	Arkansas / Louisiana / Oklahoma / Texas
Sioux City	624	Iowa / Nebraska / South Dakota
Sioux Falls (Mitchell)	725	Iowa / Minnesota / Nebraska / South Dakota
South Bend / Elkhart	588	Indiana / Michigan
Spokane	881	Idaho / Montana / Oregon / Washington
Springfield	619	Arkansas / Missouri
Springfield / Holyoke	543	Massachusetts
St. Joseph	638	Kansas / Missouri

St. Louis	609	Illinois / Missouri
Syracuse	555	New York
Tallahassee / Thomasville	530	Florida / Georgia
Tampa-St. Pete (Sarasota)	539	Florida
Terre Haute	581	Illinois / Indiana
Toledo	547	Michigan / Ohio
Topeka	605	Kansas
Traverse City / Cadillac	540	Michigan
Tri-Cities	531	Tennessee / Virginia
Tucson	789	Arizona
Tulsa	671	Kansas / Oklahoma
Twin Falls	760	Idaho
Tyler / Longview	709	Texas
Utica	526	New York
Victoria	626	Texas
Waco / Temple / Bryan	625	Texas
Washington DC	511	District of Columbia / Maryland / Pennsylvania / Virginia / West Virginia
Watertown	549	New York
Wausau / Rhinelander	705	Wisconsin
West Palm Beach / Ft. Pierce	548	Florida
Wheeling / Steubenville	554	Ohio / West Virginia
Wichita / Hutchinson	678	Kansas / Nebraska
Wichita Falls / Lawton	627	Oklahoma / Texas

Wilkes-Barre / Scranton / Hazelton	577	Pennsylvania
Wilmington	550	North Carolina
Yakima	810	Washington
Youngstown	536	Ohio / Pennsylvania
Yuma / El Centro	771	Arizona / California
Zanesville	596	Ohio

Network Numbers

A partial list of television networks is shown below. Refer to Finding a Network for more information.

Name	#	Short Name	Type	Category
A&E	372	A&E	Cable	General Entertainment
ABC	3	ABC	Broadcast	Broadcast (Major)
ABC Family	553	ABCFAM	Cable	General Entertainment
American Movie Classics	401	AMC	Cable	General Entertainment, Movies
BBC America	558	BBCA	Cable	Multicultural/Foreign Language
Bloomberg Television	354	BLOOM	Cable	Business, Information, News
Bravo	367	BRAVO	Cable	Arts/Culture/History, General Entertainment
CBS	4	CBS	Broadcast	Broadcast (Major)
Cinemax	19	MAX	Cable	General Entertainment, Movies, Premium Networks
CNBC	623	CNBC	Cable	Business, Information, News
CNN	28	CNN	Cable	News
CSPAN	36	CSPAN	Cable	Arts/Culture/History, Education, News
The CW	20	CW	Broadcast	Broadcast (Major)
Discovery Channel	27	DSC	Cable	Arts/Culture/History, Education, Lifestyle, Science
Disney Channel	32	DIS	Cable	Children & Family, Education/Learning
E! - Entertainment Television	381	E!	Cable	General Entertainment, Lifestyle, News
Encore	37	ENC	Cable	Movies, Premium Networks
ESPN	33	ESPN	Cable	General Entertainment, News, Sports

Food Network	331	FOOD	Cable	Cooking, Lifestyle
FOX	6	FOX	Broadcast	Broadcast (Major)
Fox News Channel	565	FNC	Cable	News
FX Network	40	FX	Cable	General Entertainment, Movies
Game Show Network	371	GSN	Cable	General Entertainment
Golf Channel	311	GOLF	Cable	Sports
Hallmark	397	HALL	Cable	Children & Family, General Entertainment
HBO	12	HBO	Cable	General Entertainment, Movies, Premium Networks
HDNet	386	HDNET	Cable	General Entertainment, News, Premium Networks
Headline News	406	HLN	Cable	General Entertainment, News
HGTV	332	HGTV	Cable	Lifestyle
History Channel	29	HIST	Cable	Arts/Culture/History, Education, News
HSN	385	HSN	Cable	Shopping
IFC	622	IFC	Cable	General Entertainment, Movies, Premium Networks
ION	24	ION-B	Unified	Broadcast, Children & Family, General Entertainment
Lifetime	395	LIFE	Cable	General Entertainment, Lifestyle
MGM	5039	MGM	Cable	Movies, General Entertainment, Multi-cultural
Military Channel	347	MILT	Cable	Educational, Lifestyle, Science/Technology
MLB Network	5237	MLB	Cable	General Entertainment, News, Sports

Channel	Number	Code	Type	Categories
The Movie Channel	38	TMC	Cable	General Entertainment, Movies, Premium Networks
MTV	2	MTV	Cable	Music
National Geographic Channel	400	NGC	Cable	Arts/Culture/History, Education, Lifestyle
NBA TV	485	NBA TV	Cable	Sports
NBC	5	NBC	Broadcast	Broadcast (Major)
NFL Network	313	NFLNET	Cable	General Entertainment, News, Sports
NHL Network	5093	NHLTV	Cable	General Entertainment, News, Sports
Nickelodeon/Nick-at-Nite	9	NICK	Cable	Children & Family
Outdoor Channel	407	ODC	Cable	Lifestyle, Sports
Oxygen	337	OXGN	Cable	General Entertainment, Movies
PBS	13	PBS	Broadcast	Broadcast (Major)
QVC	360	QVC	Cable	Shopping
Reelz	5141	REELZ	Cable	General Entertainment, Movies
Showtime	17	Showtime	Cable	General Entertainment, Movies, Premium Networks
Smithsonian Channel	5049	SMITHSON	Cable	Arts/Culture/History, Education/Learning
Spike TV	378	SPKE	Cable	General Entertainment, Lifestyle, Movies, Sports
Starz	34	STRZ	Cable	Movies, Premium Networks
Syfy	377	SYFY	Cable	General Entertainment, Science/Technology
TBS	11	TBS	Cable	General Entertainment
TLC	351	TLC	Cable	Education, General Entertainment
TNT	10	TNT	Cable	General Entertainment

Travel Channel	349	TRAVEL	Cable	Lifestyle, Arts/Culture/History
TV Land	548	TVLD	Cable	Children & Family, General Entertainment
USA	383	USA	Cable	General Entertainment, Sports
VH1	35	VH1	Cable	General Entertainment, Music
Weather Channel	402	WEATH	Cable	News
WGN America	368	WGN	Cable	Children & Family, Movies, Sports

Station Numbers

A partial list of television stations is shown below. Refer to Finding a Station for more information.

Call Sign	Station Name	Station Number	Primary Market #	Affiliated Network #
KBEH	KBEH Oxnard, California (Independent)	12619	803	438
KBJR2	KBJR2 Superior, Wisconsin (MyNet)	12640	676	25
KBSI	KBSI Cape Girardeau, Missouri (FOX)	5602	632	6
KCRA	KCRA Sacramento, California (NBC)	4580	862	5
KCWQ	KCWQ Palm Springs, California (CW)	10796	804	20
KERO	KERO Bakersfield, California (ABC)	5164	800	3
KETD	KETD Castle Rock, Colorado (Estrella)	5134	751	6365
KETS	KETS Little Rock, Arkansas (PBS)	5639	693	13
KHNL	KHNL Honolulu, Hawaii (NBC)	5670	744	5
KHON	KHON Honolulu, Hawaii (FOX)	5671	744	6
KINT	KINT El Paso, Texas (Univision)	9185	765	8030
KIPT	KIPT Twin Falls, Idaho (PBS)	10186	760	13
KJTL	KJTL Wichita Falls, Texas (FOX)	5686	627	6
KLWB	KLWB New Iberia, Louisiana (MeTV)	10770	642	2149
KLTV	KLTV Tyler, Texas (ABC)	5700	709	3
KLWY2	KLWY2 Cheyenne, Wyoming (ABC)	27415	759	3
KMCT	KMCT West Monroe, Louisiana (Independent)	5703	628	438
KMGH	KMGH Denver, Colorado. (ABC)	4255	751	3
KMPH	KMPH Visalia, California (FOX)	10061	866	6
KMTR2	KMTR2 Eugene, Oregon (CW)	10691	801	20

KNOE2	KNOE2 Monroe, Louisiana (ABC)	10710	628	3
KOPB	KOPB Portland, Oregon (PBS)	5116	820	13
KQFX	KQFX Columbia - Jefferson City, Missouri (FOX)	23875	604	6
KRDO	KRDO Colorado Springs, Colorado (ABC)	5168	752	3
KRMA	KRMA Denver, Colorado (PBS)	4323	751	13
KTFT	KTFT Twin Falls, Idaho (NBC)	10428	760	5
KUED	KUED Salt Lake City, Utah (PBS)	9545	770	13
KVMD	KVMD Twentynine Palms, California (Independent)	11257	803	438
KVUE2	KVUE2 Austin, Texas (Estrella)	14279	635	6365
KXGN2	KXGN2 Glendive, Montana (NBC)	26912	798	5
KXNW	KXNW Eureka Springs, Arkansas (MyNet)	5729	670	25
KYTV	KYTV Springfield, Missouri (NBC)	9586	619	5
KZTV	KZTV Corpus Christi, Texas (CBS)	9587	600	4
WAMI	WAMI Hollywood, Florida (UniMas)	10125	528	8032
WAWV	WAWV Terre Haute, Indiana (ABC)	5587	581	3
WBAY	WBAY Green Bay, Wisconsin (ABC)	5228	653	3
WBGH	WBGH Binghamton, New York (NBC)	14838	502	5
WBIR	WBIR Knoxville, Tennessee (NBC)	5237	557	5
WBKB2	WBKB2 Alpena, Michigan (FOX)	26479	583	6
WBNG	WBNG Binghamton, New York (CBS)	12737	502	4
WBPX	WBPX Boston, Massachusetts (ION)	23492	506	8040
WCBD	WCBD Charleston, South Carolina (CW)	10638	519	20
WCES	WCES Wrens, Georgia (PBS)	4996	520	13

WFFF	WFFF Burlington, Vermont (FOX)	8908	523	6
WFOR	WFOR Miami, Florida (CBS)	4651	528	4
WHTJ	WHTJ Charlottesville, Virginia (PBS)	6873	584	13
WHYY	WHYY Wilmington, Delaware (PBS)	5028	594	13
WLPB	WLPB Baton Rouge, Louisiana (PBS)	4909	716	13
WMAR	WMAR Baltimore, Maryland (ABC)	4875	512	3
WOGX	WOGX Ocala, Florida (FOX)	5411	592	6
WPLG	WPLG Miami, Florida (ABC)	4650	528	3
WPXJ	WPXJ Batavia, New York (ION)	25591	514	8040
WPXP	WPXP Lake Worth, Florida (ION)	8329	548	8040
WPXQ	WPXQ Block Island, Rhode Island (ION)	23772	521	8040
WQHS	WQHS Cleveland, Ohio (Univision)	9267	510	8030
WRAL	WRAL Raleigh, North Carolina (CBS)	4935	560	4
WRTV	WRTV Indianapolis, Indiana (ABC)	4593	527	3
WSKY	WSKY Manteo, North Carolina (Independent)	6312	544	438
WTKR	WTKR Norfolk, Virginia (CBS)	5511	544	4
WTOV	WTOV Steubenville, Ohio (NBC)	12830	554	5
WTVC	WTVC Chattanooga, Tennessee (FOX)	24019	575	6
WTVQ	WTVQ Lexington, Kentucky (ABC)	9064	541	3
WTVO2	WTVO2 Rockford, Illinois (MyNet)	11327	610	25
WUXP	WUXP Nashville, Tennessee (MyNet)	4922	659	25
WVBT	WVBT Virginia Beach, Virginia (FOX)	9728	544	6
WVPT	WVPT Staunton, Virginia (PBS)	13788	569	13

| WVIZ | WVIZ Cleveland, Ohio (PBS) | 8997 | 510 | 13 |
| WWSI | WWSI Atlantic City, New Jersey (Telemundo) | 5142 | 504 | 8034 |

Examples

The Metadata endpoint allows you to retrieve metadata for lookups or to populate your local database for use in querying the following endpoints:

Refer to the following list of usage examples:

Finding a Demographic Tag

Finding a Local Schedule

Finding a National Schedule

Finding a Series

Finding a Station

Finding a Market Number

Finding a Network Number

Finding a Demographic Tag

The following example shows how to use the Metadata endpoint (**/tv/v4/metadata/demographics**) to retrieve metadata on selected demographics. A sample list of [Demographic Tags](#) follows.

#	Demo #	Demo Name
01	3632	M18-49
02	3629	M18-24

Request

```
{

  "filters":[

    ["or", "demo_no",

      ["eq", 3629],

      ["eq", 3632]

    ]

  ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      3632,

      "M1849",
```

```
      "M18-49",

      true,

      "2012-03-15T11:20:48.000",

      11,

      341,

      "Age Range",

      27100,

      152,

      "Comscore Demographics"

    ],

    [

      3629,

      "M1824",

      "M18-24",

      true,

      "2012-03-15T11:20:48.000",

      2,

      341,

      "Age Range",

      27100,

      152,

      "Comscore Demographics"

    ]

  ],

  "status": "success",

  "api_request_id": "2p36RdiVx6fl",
```

```
  "api_time": 58,

  "final_date": "2015-09-02",

  "result_columns": [

    "demo_no",

    "ox_demo_code",

    "demo_name",

    "demo_national",

    "demo_create_date",

    "demo_sort_order",

    "demo_group_no",

    "demo_group_name",

    "demo_group_sort_order",

    "demo_group_owner_no",

    "demo_group_owner_name"

  ]

}
```

Demographic Tags

A partial list of demographic tags is shown below.

Name	Number	Description
K 3-5	3627	Children between the ages of 3 and 5 present in the household.
K 3-10	3626	Children between the ages of 3 and 10 present in the household.
K 6-10	3628	Children between the ages of 6 and 10 present in the household.
K 11-17	3625	Children/teenagers between the ages of 11 and 17 present in the household.
M 18-24	3629	Men between the ages of 18 and 24 present in the household.

W 18-24	3638	Women between the ages of 18 and 24 present in the household.
M 18-34	3630	Men between the ages of 18 and 34 present in the household.
W 18-34	3639	Women between the ages of 18 and 34 present in the household.
M 18-44	3631	Men between the ages of 18 and 44 present in the household.
W 18-44	3640	Women between the ages of 18 and 44 present in the household.
A 18-49	3623	Adults between the ages of 18 and 49 present in the household.
M 18-49	3632	Men between the ages of 18 and 49 present in the household.
W 18-49	3641	Women between the ages of 18 and 49 present in the household.
M 21-24	3657	Men between the ages of 21 and 24 present in the household.
W 21-24	3658	Women between the ages of 21 and 24 present in the household.
M 21-34	3656	Men between the ages of 21 and 34 present in the household.
W 21-34	3663	Women between the ages of 21 and 34 present in the household.
M 25-49	3633	Men between the ages of 25 and 49 present in the household.
W 25-49	3642	Women between the ages of 25 and 49 present in the household.
M 25-54	3634	Men between the ages of 25 and 54 present in the household.
W 25-54	3643	Women between the ages of 25 and 54 present in the household.
A 35-64	3622	Adults between the ages of 35 and 64 present in the household.
M 35-64	3635	Men between the ages of 35 and 64 present in the household.
W 35-64	3644	Women between the ages of 35 and 64 present in the household.
A 50+	3624	Adults at or above the age of 50 present in the household.
M 50+	3636	Men at or above the age of 50 present in the household.
W 50+	3645	Women at or above the age of 50 present in the household.
M 65+	3637	Men at or above the age of 65 present in the household.
W 65+	3646	Women at or above the age of 65 present in the household.

Finding a Local Schedule

The following example shows how to use the Metadata endpoint (**/tv/v4/metadata/local_schedule**) to find local television schedules.

#	Airdate Time	Station #	Series Name
01	2014-01-01T00:00:00.000	4201	Jeopardy!
02	2014-01-01T00:30:00.000	4201	Wheel of Fortune
03	2014-01-01T01:00:00.000	4201	New Year's Rockin' Eve Presents The 30 Greatest Women In Music
04	2014-01-01T03:00:00.000	4201	Dick Clark's Primetime New Year's Rockin' Eve With Ryan Seacrest 2014
05	2014-01-01T04:00:00.000	4201	Eyewitness News at 11:00
06	2014-01-01T04:30:00.000	4201	Dick Clark's New Year's Rockin' Eve With Ryan Seacrest 2014 Part 1
07	2014-01-01T06:09:00.000	4201	Dick Clark's New Year's Rockin' Eve With Ryan Seacrest 2014 Part 2
08	2014-01-01T07:13:00.000	4201	Who Wants to Be a Millionaire?
09	2014-01-01T07:40:00.000	4201	Eyewitness News at 11:00
10	2014-01-01T08:12:00.000	4201	ABC World News Now
11	2014-01-01T08:42:00.000	4201	ABC World News Now
12	2014-01-01T09:00:00.000	4201	America This Morning
13	2014-01-01T09:30:00.000	4201	Eyewitness News This Morning
14	2014-01-01T11:00:00.000	4201	Eyewitness News This Morning
15	2014-01-01T12:00:00.000	4201	Good Morning America
16	2014-01-01T14:00:00.000	4201	LIVE! with Kelly and Michael
17	2014-01-01T15:00:00.000	4201	Rachael Ray
18	2014-01-01T16:00:00.000	4201	The 2014 Rose Parade
19	2014-01-01T18:00:00.000	4201	2014 Capital One Bowl: Wisconsin Badgers vs South Carolina Gamecocks

20	2014-01-01T21:30:00.000	4201	Eyewitness News First at 4:00
21	2014-01-01T22:00:00.000	4201	Eyewitness News at 5:00
22	2014-01-01T23:00:00.000	4201	Eyewitness News at 6:00
23	2014-01-01T23:30:00.000	4201	ABC World News with Diane Sawyer
24	2014-01-02T00:00:00.000	4201	Jeopardy!

At least one 'eq', 'in', or 'range' date filter is required to limit the number of returned schedule rows.

Request

```
{

  "fields": [

    "airdatetime",

    "station_no",

    "series_name",

    "episode_title",

    {

      "alias": "call_sign",

      "field": "station_call_sign"

    },

    "station_name",

    {

      "alias": "location",

      "field": "station_location"

    },

    {

      "alias": "tv_market_no",
```

```
      "field": "station_primary_market_no"

    },

    {

      "alias": "network_no",

      "field": "station_affiliated_network_no"

    },

    "network_name"

  ],

  "filters": [

    [

      "range",

      "airdatetime",

      "2014-01-01T00:00:00",

      "2014-01-02T00:00:00"

    ],

        [

          "eq", "station_no", 4201

          ]

  ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [
```

```
[
  "2014-01-01T00:00:00.000",
  4201,
  "Jeopardy!",
  null,
  "WABC",
  "WABC New York, N.Y. (ABC)",
  "New York, NY",
  501,
  3,
  "ABC"
],
[
  "2014-01-01T00:30:00.000",
  4201,
  "Wheel of Fortune",
  null,
  "WABC",
  "WABC New York, N.Y. (ABC)",
  "New York, NY",
  501,
  3,
  "ABC"
],
[
  "2014-01-01T01:00:00.000",
```

    4201,

    "New Year's Rockin' Eve Presents The 30 Greatest Women In Music",

    "New Year's Rockin' Eve Presents The 30 Greatest Women In Music",

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T03:00:00.000",

    4201,

    "Dick Clark's Primetime New Year's Rockin' Eve With Ryan Seacrest 2014",

    "Dick Clark's Primetime New Year's Rockin' Eve With Ryan Seacrest 2014",

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T04:00:00.000",

    4201,

    "Eyewitness News at 11:00",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T04:30:00.000",

    4201,

    "Dick Clark's New Year's Rockin' Eve With Ryan Seacrest 2014 Part 1",

    "Dick Clark's New Year's Rockin' Eve With Ryan Seacrest 2014 Part 1",

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T06:09:00.000",

    4201,

    "Dick Clark's New Year's Rockin' Eve With Ryan Seacrest 2014 Part 2",

    "Dick Clark's New Year's Rockin' Eve With Ryan Seacrest 2014 Part 2",

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T07:13:00.000",

    4201,

    "Who Wants to Be a Millionaire?",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T07:40:00.000",

    4201,

    "Eyewitness News at 11:00",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T08:12:00.000",

    4201,

    "ABC World News Now",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T08:42:00.000",

    4201,

    "ABC World News Now",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

```
    "ABC"
  ],
  [
    "2014-01-01T09:00:00.000",
    4201,
    "America This Morning",
    null,
    "WABC",
    "WABC New York, N.Y. (ABC)",
    "New York, NY",
    501,
    3,
    "ABC"
  ],
  [
    "2014-01-01T09:30:00.000",
    4201,
    "Eyewitness News This Morning",
    null,
    "WABC",
    "WABC New York, N.Y. (ABC)",
    "New York, NY",
    501,
    3,
    "ABC"
  ],
```

```json
[
  "2014-01-01T11:00:00.000",
  4201,
  "Eyewitness News This Morning",
  null,
  "WABC",
  "WABC New York, N.Y. (ABC)",
  "New York, NY",
  501,
  3,
  "ABC"
],
[
  "2014-01-01T12:00:00.000",
  4201,
  "Good Morning America",
  null,
  "WABC",
  "WABC New York, N.Y. (ABC)",
  "New York, NY",
  501,
  3,
  "ABC"
],
[
  "2014-01-01T14:00:00.000",
```

    4201,

    "LIVE! with Kelly and Michael",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T15:00:00.000",

    4201,

    "Rachael Ray",

    "Bubblegum That Tastes Like A Hot Dog; Medical Breakthroughs; Home Gadgets",

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T16:00:00.000",

    4201,

    "The 2014 Rose Parade",

```
      null,

      "WABC",

      "WABC New York, N.Y. (ABC)",

      "New York, NY",

      501,

      3,

      "ABC"

  ],

  [

      "2014-01-01T18:00:00.000",

      4201,

      "College Football",

      "2014 Capital One Bowl: Wisconsin Badgers vs South Carolina Gamecocks",

      "WABC",

      "WABC New York, N.Y. (ABC)",

      "New York, NY",

      501,

      3,

      "ABC"

  ],

  [

      "2014-01-01T21:30:00.000",

      4201,

      "Eyewitness News First at 4:00",

      null,

      "WABC",
```

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T22:00:00.000",

    4201,

    "Eyewitness News at 5:00",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T23:00:00.000",

    4201,

    "Eyewitness News at 6:00",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-01T23:30:00.000",

    4201,

    "ABC World News with Diane Sawyer",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

    "ABC"

  ],

  [

    "2014-01-02T00:00:00.000",

    4201,

    "Jeopardy!",

    null,

    "WABC",

    "WABC New York, N.Y. (ABC)",

    "New York, NY",

    501,

    3,

```
      "ABC"
    ]
  ],
  "status": "success",
  "api_request_id": "4XNYT1wwzTLv",
  "api_time": 261,
  "final_date": "2015-12-24",
  "result_columns": [
    "airdatetime",
    "station_no",
    "series_name",
    "episode_title",
    "call_sign",
    "station_name",
    "location",
    "tv_market_no",
    "network_no",
    "network_name"
  ]
}
```

Finding a Market Number

The following example shows how to use the Metadata endpoint (**/tv/v4/metadata/markets**) to retrieve metadata for television markets.

Refer to [Market Numbers](#) and [Market Tiers](#) for a complete list.

#	Market #	Market Name	Market Long Name	Is Limited	Daypart Offset
01	531	Tri-Cities, TN-VA	Tri-Cities, TN-VA	false	0
02	811	Reno	Reno, CA-NV	false	0
03	740	North Platte	North Platte, NE	false	-1
04	525	Albany, GA	Albany, GA	false	0

Request

```
{

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      531,

      "Tri-Cities, TN-VA",

      "Tri-Cities, TN-VA",

      false

      0
```

```
    ],
    [
      811,
      "Reno",
      "Reno, CA-NV",
      false
      0
    ],
    [
      740,
      "North Platte",
      "North Platte, NE",
      false
      -1
    ],
    [
      525,
      "Macon",
      "Macon, GA",
      false
      0
    ]
  ],
  "status": "success",
  "api_request_id": "3I9S4I8RVlTc",
  "api_time": 9,
```

```
    "final_date": "2015-12-04",

    "result_columns": [

      "market_no",

      "market_name",

      "market_long_name",

      "is_limited_data_market",

      "daypart_offset_from_eastern_hours"

    ]

}
```

Note: The results have been truncated for display purposes.

Finding a National Schedule

The following example shows how to use the Metadata endpoint (**/tv/v4/metadata/national_schedule**) to find national television schedules.

#	National Airdate Time	Network Name	Series Name
01	2014-01-01T00:00:00.000	TNT: Turner Network Television	Marshal Law: Texas
02	2014-01-01T01:00:00.000	TNT: Turner Network Television	The Mentalist
03	2014-01-01T02:00:00.000	TNT: Turner Network Television	The Mentalist
04	2014-01-01T03:00:00.000	TNT: Turner Network Television	Law & Order
05	2014-01-01T04:00:00.000	TNT: Turner Network Television	Law & Order
06	2014-01-01T05:00:00.000	TNT: Turner Network Television	Smallville
07	2014-01-01T06:00:00.000	TNT: Turner Network Television	Smallville
08	2014-01-01T07:00:00.000	TNT: Turner Network Television	Charmed
09	2014-01-01T08:00:00.000	TNT: Turner Network Television	Charmed
10	2014-01-01T09:00:00.000	TNT: Turner Network Television	Gladiator
11	2014-01-01T11:47:00.000	TNT: Turner Network Television	The Lord of the Rings: The Fellowship of the Ring
12	2014-01-01T15:29:00.000	TNT: Turner Network Television	The Lord of the Rings: The Two Towers
13	2014-01-01T19:00:00.000	TNT: Turner Network Television	The Lord of the Rings: The Return of the King
14	2014-01-01T23:15:00.000	TNT: Turner Network Television	Lara Croft: Tomb Raider

At least one 'eq', 'in', or 'range' date filter is required to limit the number of returned schedule rows.

Request

```
{
  "fields": [
    "national_airdatetime",
```

```
    "network_name",

    "series_name"

  ],

  "filters": [

  [

      "range",

      "national_airdatetime",

      "2014-01-01T00:00:00",

      "2014-01-02T00:00:00"

    ],

  [

    "eq",

    "network_no",

    10

    ]

  ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      "2014-01-01T00:00:00.000",

      "TNT: Turner Network Television",
```

```
    "Marshal Law: Texas"
],
[
  "2014-01-01T01:00:00.000",
  "TNT: Turner Network Television",
  "The Mentalist"
],
[
  "2014-01-01T02:00:00.000",
  "TNT: Turner Network Television",
  "The Mentalist"
],
[
  "2014-01-01T03:00:00.000",
  "TNT: Turner Network Television",
  "Law & Order"
],
[
  "2014-01-01T04:00:00.000",
  "TNT: Turner Network Television",
  "Law & Order"
],
[
  "2014-01-01T05:00:00.000",
  "TNT: Turner Network Television",
  "Smallville"
```

```
  ],
  [
    "2014-01-01T06:00:00.000",
    "TNT: Turner Network Television",
    "Smallville"
  ],
  [
    "2014-01-01T07:00:00.000",
    "TNT: Turner Network Television",
    "Charmed"
  ],
  [
    "2014-01-01T08:00:00.000",
    "TNT: Turner Network Television",
    "Charmed"
  ],
  [
    "2014-01-01T09:00:00.000",
    "TNT: Turner Network Television",
    "Gladiator"
  ],
  [
    "2014-01-01T11:47:00.000",
    "TNT: Turner Network Television",
    "The Lord of the Rings: The Fellowship of the Ring"
  ],
```

```json
    [
      "2014-01-01T15:29:00.000",

      "TNT: Turner Network Television",

      "The Lord of the Rings: The Two Towers"

    ],

    [

      "2014-01-01T19:00:00.000",

      "TNT: Turner Network Television",

      "The Lord of the Rings: The Return of the King"

    ],

    [

      "2014-01-01T23:15:00.000",

      "TNT: Turner Network Television",

      "Lara Croft: Tomb Raider"

    ]

  ],

  "status": "success",

  "api_request_id": "gZLgN50ivILg",

  "api_time": 65,

  "final_date": "2015-12-24",

  "result_columns": [

    "national_airdatetime",

    "network_name",

    "series_name"

  ]

}
```

Finding a Network Number

The following example shows how to use the Metadata endpoint (**/tv/v4/metadata/networks**) to retrieve metadata for ABC.

Refer to [Network Numbers](#) for a complete list.

#	Network #	Network Name	Network Short Name	Network Type
01	3	ABC	ABC	Broadcast

Request

```
{
  "filters": [
    ["eq", "network_name", "ABC"]
  ]
}
```

Response

```
{
  "next_page_token": null,
  "api_version": "885655ce",
  "result_rows": [
    [
      3,
      "ABC",
      "ABC",
      "Broadcast"
      [
```

```json
        "Broadcast (Major)"
      ]
    ]
  ],
  "status": "success",
  "api_request_id": "oYAPQJcjIJIO",
  "api_time": 5,
  "final_date": "2015-12-04",
  "result_columns": [
    "network_no",
    "network_name",
    "network_short_name",
    "network_type"
    "category_names"
  ]
}
```

Finding a Series

The following example shows how to use the Metadata endpoint (**/tv/v4/metadata/series**) to retrieve metadata for "The Big Bang Theory".

#	Series #	Series Name	Series Name 15	Genre	Subgenre
01	1168954	The Big Bang Theory	Big Bang Theory	Comedy	Sitcom

Request

```
{
  "filters": [
    ["eq", "series_name", "The Big Bang Theory"],
    ["eq", "series_genre_no", 3]
  ]
}
```

Response

```
{
  "next_page_token": null,
  "api_version": "885655ce",
  "result_rows": [
    [
      1168954,
      "The Big Bang Theory",
      "Big Bang Theory",
      null,
      3,
```

```
      "Comedy",

      46,

      "Sitcom"

    ]

  ],

  "status": "success",

  "api_request_id": "trqVdFmufME2",

  "api_time": 21,

  "final_date": "2015-09-02",

  "result_columns": [

    "series_no",

    "series_name",

    "series_name_15",

    "series_syndication_type",

    "series_genre_no",

    "series_genre",

    "series_subgenre_no",

    "series_subgenre"

  ]

}
```

Finding a Station

The following example shows how to use the Metadata endpoint (**/tv/v4/metadata/stations**) to retrieve metadata for WABC.

Refer to **Market Numbers** for a complete list.

#	Station #	Station Call Sign	Station Name	Station Primary Market #	Station Affiliated Network #
01	4201	WABC	WABC New York, N.Y. (ABC)	501	3

Request

```
{

  "filters": [

    ["eq", "station_primary_market_no", 501],

    ["eq", "station_call_sign", "WABC"]

  ]

}
```

Response

```
{

  "next_page_token": null,

  "api_version": "885655ce",

  "result_rows": [

    [

      4201,

      "WABC",

      "WABC New York, N.Y. (ABC)",
```

```
      501,

      3

    ]

  ],

  "status": "success",

  "api_request_id": "60gMaaldnnvD",

  "api_time": 64,

  "final_date": "2015-12-04",

  "result_columns": [

    "station_no",

    "station_call_sign",

    "station_name",

    "station_primary_market_no",

    "station_affiliated_network_no"

  ]

}
```

Code Samples

C#

1. Extract the files from the archive to a folder.

2. Put your .json files in this same folder.

3. Set your clientId/clientSecret keys in the config file.

```
<add key="clientId" value="your client id here" />

<add key="clientSecret" value="your client secret here" />
```

Click here to access the Comscore API C-sharp example. The syntax is: comScoreApi.exe National-AiringsStreamsTest.json

Java

The following example shows how to enable the storage of the client_id and secret key you use to access the API:

```
def generate_signature(client_secret, endpoint_path, timestamp, request):

  string_to_sign = "\n".join((endpoint_path, timestamp, json.dumps(request)))

sha1_hash = hmac.new(client_secret.encode('utf-8'), string_to_sign.encode('utf-8'), sha1)

  return b64encode(sha1_hash.digest()).decode('utf-8')
```

The following items must be correct in order for the signature to work:

*   A valid endpoint must be specified. For example, extra '/' on the end would make the signature invalid.
*   The timestamp must be in the correct format.
*   The string to be signed components must be separated by a new line character ('\n', not '\r' '\n') so that there are no extra spaces or non-printable characters anywhere.
*   Then string to sign and secret key must be converted to UTF-8 encoding.

Click here to access the Comscore API Java example.

Python

To send the actual request you need to edit api_example.py. Insert the real client_id and client_secret as shown below:

```python
api = ApiClient(

 url='https://api.rentrak.com',

 client_id='client_id goes here',

 client_secret='client_secret goes here',

 timeout_sec=1200,

 open_timeout_sec=30

]
```

The endpoint path and the JSON request also need to be inserted as shown below:

```python
endpoint_path = '/tv/v4/national_airing_views'

api_request = json.loads("""{

 "fields": [

  "network_name",

  "rating"

 ],

 "filters": [

  [

    "eq",

    "day",

    "2014-05-30"

  ],

  [

    "in",

    "network_no",
```

```
      "3,

      "4,

      "5,

      "6

   ],

   [

      "eq",

      "qtr_hour_start_time",

      "20:00"

   ]

  ],

  "group_by": [

   network_no"

  ]

}""")
```

Click here to access the Comscore API Python examples. Execute this command from the extraction directory for the py files: `python ./api_example.py`

Frequently Asked Questions

What is an Endpoint?

An endpoint is a Uniform Resource Locator (URL) that is called programmatically. It provides a specific category of viewing data.

See the [Endpoints](#) for more details.

How Much Historical Data is Available via the API?

Data is available starting with 2013. As with [TV Essentials](#) and [StationView Essentials](#), historical data is limited by subscription.

What are Local Airing Views?

An endpoint that supports requests for local broadcast station, cable network, series, or episode-oriented data. It retrieves metrics for titles included in local programming.

See [Local Airing Views Endpoint](#) for more details.

What are Local Time Views?

An supports requests for local broadcast station and cable network viewership data broken down in 15 minute increments. It is used to build exact time based daypart metrics that are independent from any program start or end times.

See [Local Time Views Endpoint](#) for more details.

What are National Airing Views?

An endpoint that supports requests for national network, series, or episode-oriented data. It retrieves national household metrics for titles included in national programming.

See [National Airing Views Endpoint](#) for more details.

What is a Third Party Request?

A request made as a Third Party Provider (TPP) on behalf of other Comscore clients by using the as_client_id parameter.

See [Constructing an API Request](#) for more details.

What is the Difference Between Synchronous and Asynchronous Mode?

Our API has two modes, synchronous and asynchronous. Synchronous requests have no timeout element and asynchronous requests include a timeout element.

See [Asynchronous Mode](#) for more details.

Who Do I Contact if I Have Questions About the API?

Please contact your account manager with any questions. If you are a third party processor, feel free to reach out to Comscore TPP Support at ComscoreTPPSupport@comscore.com with any questions.

Acronyms

A

AA

Average Audience

API

Application Programming Interface

ARI

Ad Retention Index

D

DVR

Digital Video Recorder

E

EST

Eastern Standard Time

ETag

Entity Tag

H

HH

Households

HH UE

Household Universe Estimate

HUT

Households Using Television

HTTP

Hypertext Transfer Protocol

HTTPS

Hypertext Transfer Protocol Secure

I

IETF

Internet Engineering Task Force

J

JSON

JavaScript Object Notation

O

OTA

Over-the-Air

P

PDF

Portable Document Format

R

R/O

Required/Optional

S

SSL

Secure Sockets Layer

STB

Set-Top Boxes

T

TPP

Third Party Provider

TLS

Transport Layer Security

U

UE

Universe Estimate

URL

Uniform Resource Locator

Terms

A

Ad Retention Index (ARI)

The percentage of a telecast's audience retained during ads. Calculated by dividing the Average Audience of the ad pods by the Average Audience across the entire program.

Affiliate

A TV station, not owned by a network, that grants a network use of specific time periods for network programs and advertising, for compensation. The remainder of broadcast day is programmed locally.

Airdatetime

The date and time that a telecast begins.

Alias

An alternate name for a field.

API Request ID

A unique identifier for an API request.

API Time

The elapsed time for an API request.

Application Programming Interface (API)

A set of routines, protocols, and tools for building software applications.

Approximate Start Time

The estimated start time for a telecast.

Array

An ordered list of values.

Audience

A group of households or persons who are viewing or otherwise engaging with video content through various media channels.

Authentication

The use of a non-secret client ID and shared secret key to verify user credentials.

Availability (Avails)

An unsold unit of time that is available for broadcasters to sell to advertisers.

Average Audience (AA)

The average number of TVs tuned into an entity (telecast, series, or network) throughout the selected time frame. Calculated by dividing the total hours viewed by the length of the time frame (in hours).

Average Households

An average of separate, unique household counts for viewing an entity (telecast, series, or network).

Average STBs

An average of separate, unique STB counts for viewing an entity (telecast, series, or network).

Average STBs per Viewing Household

The average number of STBs per viewing household during the selected time frame.

B

Boolean

A data type with two possible values (true or false).

Broadcast Network

A television network that broadcasts Over-the-Air (OTA).

C

Cable Network

A television network that broadcasts via cable television.

Calendar Day

The calendar date of a telecast.

Call Sign

The unique four-letter combination assigned to a television station. For example, KATU.

Commercial Measurement

The tracking of average commercial audience and average commercial rating.

Coverage

The percentage of homes or persons able to receive an individual network or channel.

Coverage Rating

The percentage of households that viewed the network, from among the households that subscribe to the network. Calculated by dividing the Rating by the fraction of total households that subscribe to the network.

D

Day

A day of the week: Monday (M), Tuesday (T), Wednesday (W), Thursday (R), Friday (F), Saturday (S), Sunday (U).

Day of Week

The broadcast day of a telecast.

Daypart

The time segments within a broadcast day. The industry standard dayparts (for the Eastern and Pacific time zones) are: Early Morning 6:00 AM - 9:00 AM, Daytime 9:00 AM - 4:00 PM, Early Fringe 4:00 PM - 7:00 PM, Prime Access 7:00 PM - 8:00 PM, Prime 8:00 PM - 11:00 PM, Late Fringe 11:00 PM - 2:00 AM, and Overnight 2:00 AM - 6:00 AM.

Daytime

The 9:00 AM - 4:00 PM daypart of a broadcast schedule.

Decimal Precision

The number of places included in a decimal number.

Demo Data is Complete

Set to false when demo data is not contiguous across the requested date range.

Demo Index

A measurement of the relative viewership of the demographic segment households compared to the viewership in all market households or national households.

Demo Name

The name of a demographic. For example, M18-24.

Demo Number

The unique number assigned to a demographic category.

Demographic Measurements

The tracking of viewership, average audience, and rating.

Demography

The statistical study of human populations.

Digital Video Recorder (DVR)

A measurement (Average Audience, Rating, etc.) from DVR viewing alone.

Disclosures

A subscriber notification about events or changes that impact reporting for the selected date range, market, and/or network.

Dominant Programming

The filtering logic used by the Local Avails endpoint that excludes viewing from other titles if one title comprises 80% or more of the filtered data.

Duration

The total length of a broadcast in minutes, or duration in seconds for ads.

Duration Minutes

The length of a telecast in minutes.

DVR Measurements

The tracking of DVR viewing and a combination of live and DVR viewing.

E

Early Fringe

The 4:00 PM - 7:00 PM daypart of a broadcast schedule.

Early Morning

The 6:00 AM - 9:00 AM daypart of a broadcast schedule.

Eastern Airdatetime

The date and time that a telecast begins in the Eastern Standard Time (EST) zone. For example, "2016-01-01T08:12:00.000".

End Time

The end time for a telecast.

Endpoint

A Uniform Resource Locator (URL) that is called programmatically.

Entity Tag (ETag)

A HTTP response header returned by web server. It is used to determine changes to the content of a resource at a specific URL.

Episode Number

The chronological number assigned to an episode of a television series.

Episode Title

The name of an episode of a television series.

Epsilon

A global marketing company located in Irving, Texas.

F

Field

A data point included in a JavaScript Object Notation (JSON) request.

Filter

A parameter included in a JSON request.

G

Genre

A category of similar types of television shows and films. For example, comedy, drama, or science fiction.

Group By

The way that data is organized in a JSON request.

H

Half Hour

The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00 or 30.

Hostname

A label assigned to a device connected to a computer network that identifies it for electronic communication.

Hour

The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00.

Hours per Viewing Household

The hours viewed per viewing household during the selected time frame.

Household Measurements

The tracking of total hours viewed, average audience, rating, households using television, and share.

Household Universe Estimate (HH UE)

The total number of TV households in the market or nation, used as the denominator in the Rating calculation.

Households (HH)

The number of unique households that viewed an entity (telecast, series, or network) during a given time frame. A view must be at least one minute.

Households Using Television (HUT)

The gross percentage of TV households in the market or the nation watching television during a given time frame. Calculated by summing the Ratings of all programming during the time frame.

Hypertext Transfer Protocol (HTTP)

An application protocol for distributed, collaborative, hypermedia information systems.

Hypertext Transfer Protocol Secure (HTTPS)

The use of HTTP for communication with encryption for authentication of the visited website and protection of the privacy and integrity of the exchanged data.

I

Index

In demographic reports, index measures the relative viewership of the segment households, compared to the viewership in all national households. Index measures the relative viewership of the Simmons variable respondents to the viewership in all national households. If the index is greater than 100, the segment or variable watched the programming at a higher rate than the nation. For example, an index of 120 means that the average segment or variable household watched 20% more of the programming than the average household. If the index is less than 100, the segment or variable watched at a lesser rate.

Internet Engineering Task Force (IETF)

An organization that develops and promotes voluntary Internet standards.

J

JavaScript Object Notation (JSON)

An open standard format that uses human-readable text to transmit data objects consisting of attribute-value pairs.

L

Late Fringe

The 11:00 PM - 2:00 AM daypart of a broadcast schedule.

Live + DVR

A measurement (Average Audience, Rating, etc.) from live and DVR viewing combined.

Local Airdatetime

The date and time that a telecast begins in a local market.

Local Time

The air time of the telecast in the local market.

M

Market

A region where the population receives the same television and radio station broadcasts.

Market Name

The name of a television market. For example, "Reno".

Market Number

The unique identification number assigned to a television market. For example, "811".

Meets Demo Threshold (Local Airing Views)

At least 50 segment households with reported viewing of one minute or more AND at least 5 total hour viewing the station by the segment households. The viewing need not be contiguous.

Meets Demo Threshold (National Airing Views)

At least 100 segment households with reported viewing of one minute or more AND at least 5 total hours viewing the network by the segment households. The viewing need not be contiguous.

Meets High Quality Demo Threshold (Local Airing Views)

At least 300 segment households with reported viewing of one minute or more AND at least 25 total hours viewing the station by the segment households. The viewing need not be contiguous.

Meets High Quality Demo Threshold (National Airing Views)

At least 1000 segment households with reported viewing of one minute or more AND at least 100 total hours viewing the station by the segment households. The viewing need not be contiguous.

Message

An error message. Additional keys may be included that are unique to the type of error and specific to each endpoint.

Metadata

Data about data. There are two types of metadata: structural metadata and descriptive metadata. Structural metadata is data about the containers of data. Descriptive metadata uses individual instances of application data or the data content.

Month

The calendar month of a telecast. It must the first day of the month.

N

National Airdatetime

The date and time that a telecast begins nationally.

National Time

The air time of a telecast in the network's home market. Most, but not all, networks use the Eastern Time Zone as their national time. Use the Eastern Time to determine a network's National Time. If the national time and eastern time are the same, the network's national time is Eastern. If the national time is one hour earlier than eastern time, the network's national time is Central. If it is three hours earlier than eastern time, the network's national time is Pacific.

Network

A group of stations that broadcast the same programs.

Network Name

The name of a broadcast or cable network. For example, "Game Show Network".

Network Number

The unique identification number assigned to a broadcast or cable network. For example, "371" is the code for the Game Show Network.

Null

An empty value within a response.

O

Object

An unordered collection of name/value pairs where the keys are strings.

Over-the-Air (OTA)

The use of an antenna to receive broadcast signals and watch programs on a television.

Overnight

The 2:00 AM - 6:00 AM daypart of a broadcast schedule.

P

Page Size

The number of records per page.

Pass Through Field

The parameter used in the Local Avails endpoint request that passes text through to the response data.

Prime

The 8:00 PM - 11:00 PM daypart of a broadcast schedule.

Prime Access

The 7:00 PM - 8:00 PM daypart of a broadcast schedule.

Program

A segment of content intended for broadcast on television.

Protocol

A set of communication rules that allow two or more entities to transmit information.

Q

Quarter

The calendar quarter of a telecast. It must the first day of January, April, July, or October.

Quarter Hour

The start time for a telecast. The format is HH:MM:SS (AM/PM). The MM value must be 00, 15, 30, or 45.

R

Rating (Demographic Rating)

A Demographic Rating is the series or network rating, among only the segment households in the nation. Calculated as Demographic Average Audience / Demographic Household Universe Estimate.

Rating (Household Rating)

A Household Rating is the percentage of TV households in the selected market or the nation that viewed the entity (tele-cast, series, or network). The number of TV households is commonly called the Household Universe Estimate (HH UE). Household Rating is calculated by dividing Average Audience by the HH UE.

Request

A message sent to a server resource looking for data that matches specified parameters.

Response

A reply that contains data that matches the parameters specified in a request.

Result Columns

The column names in the response dataset.

Result Rows

The rows in the response dataset that correspond to column names.

Run Time

The length of a telecast or series episode in minutes.

S

Scale

The number of places to the right of a decimal.

Schedule

A list of planned television or radio broadcasts for the next day, week, or other period of time.

Secure Sockets Layer (SSL)

A cryptographic protocol designed to provide communications security over a computer network. SSL is the predecessor of Transport Layer Security (TLS).

Series

A periodically recurring TV program. In the Comscore system, a group of episodes belongs to the same series if the air times and run times round to the same fifteen minute offset (:00, :15, :30, or :45). For example, an episode that airs at 9:59 and runs for 61 minutes belongs to the same series as an episode that airs at 10:01 and airs for 59 minutes. The reports display the series air time as 10:00 and the series run time as 60 minutes.

Series Name

The title of a television series. For example, "Undateable".

Series Number

The unique identification number assigned to a television series. For example, "2291199".

Set-Top Boxes (STB)

A receiver that converts and displays broadcasts and on demand content.

Share

The percentage that watched a given entity (telecast, series, or network) among all TV households watching television during a given time frame. Calculated as the Average Audience of the entity, relative to the Average Audience of all entities, within the given time frame.

Start Time

The start time for a telecast.

Station

A television or radio broadcasting facility.

Station Name

The name of a television station. For example, WABC New York, N.Y. (ABC).

Station Number

The unique identification number assigned to a television station. For example, "4201".

Status

A machine readable code equal to "success" if the API request succeeded or a specific error code identifying the type of error.

Stickiness Index

A measure of viewer involvement. Calculated as the series Average % Viewed, relative to all series Average % Viewed, where 100 is average.

String

A sequence of Unicode characters.

T

Telecast

A specific airing of a television program.

Time Zone

A region that observes a uniform standard time for legal, commercial, and social purposes. The four primary time zones in use in the United States are Eastern, Central, Mountain, and Pacific.

Timeout

The amount of time before the API switches to asynchronous mode.

Total Hours Viewed

The total hours viewed of an entity (telecast, series, or network) for a given time frame. Aggregated from all views of one minute or longer.

Transport Layer Security (TLS)

A cryptographic protocol designed to provide communications security over a computer network.

U

Unicode

A standard for the consistent encoding, representation, and handling of text in programming languages.

Universe

A calculation of Average Audience and Rating for each demographic segment.

Universe Estimate (UE)

The estimate of the television households both nationally and for local television markets.

Use Case

A set of tasks, examples, and supporting information that define how to achieve a goal.

W

Warning

An error message generated when part of an API request cannot be fulfilled.

Week

The calendar week of a telecast. It must begin on a Monday.

Weighted Average Run Time

The average of market run times for national telecasts, weighted by each market's telecast Average Audience.

Y

Year

The calendar year of a telecast. It must the first day of the year.

Glossary

#

Eps

Number of episodes.

%

% Change

Percentage that the measurement changed from the previous period.

% DVR

The percentage of all viewing -- live and DVR -- attributed just to DVR. Viewing for each time-shift bucket accumulates from the end of the previous bucket.

% DVR Cume

The percentage of all viewing -- live and DVR -- attributed just to DVR. Viewing for each time-shift bucket accumulates from the day of the original airing.

% Reach

The percentage of TV households (HH UE) that viewed the entity (telecast, series, or network) for at least one minute. Calculated by dividing Households by the HH UE, multiplied by 100.

% Shared TVs

In Lead In/Out, the percentage of TVs viewing the selected telecast at the top of the report that also viewed the lead-in program or the lead-out program.

Activity Window

Dates of an ad's first airing and last airing in the report's filtered date range.

Ad Copy

Name of the ad.

Airings

The number of times the ad copy aired in the filtered date range.

ARI

Ad Retention Index: the percentage of a telecast's audience retained during ads. Calculated by dividing the Average Audience of the ad pods by the Average Audience across the entire program.

Average % Viewed

Percentage of the telecast or series run time that the average viewer watched. Calculated by dividing actual Average Audience by the actual number of set-top boxes (STBs).

Average Audience

The average number of TVs tuned into an entity (telecast, series, or network) throughout the selected time frame. Calculated by dividing the total hours viewed by the length of the time frame (in hours).

Average Commercial Audience

The average number of TVs tuning into all of a telecast's commercials. Calculated by dividing the total minutes the commercials were viewed -- both live and during the selected DVR bucket -- by the total minutes that the commercials ran.

Average Commercial Rating

The percentage of TV households in the nation that viewed a telecast's commercials. Calculated by dividing the Average Commercial Audience by the Household Universe Estimate.

Average Households

An average of separate, unique household counts for viewing an entity (telecast, series, or network). For example, in quarterly reports, the system does not report unique households. Rather, it averages the monthly unique counts for each month within the quarter.

Average STBs

An average of separate, unique STB counts for viewing an entity (telecast, series, or network). For example, in quarterly reports, the system does not report unique STBs. Rather, it averages the monthly unique counts for each month within the quarter.

Average STBs per Viewing Household

Average number of STBs per viewing household during the selected time frame.

C

Coverage Rating

The percentage of households that viewed the network, from among the households that subscribe to the network. Calculated by dividing the Rating by the fraction of total households that subscribe to the network.

D

Day

Day of week: Monday (M), Tuesday (T), Wednesday (W), Thursday (R), Friday (F), Saturday (S), Sunday (U).

Daypart

Time segments within a broadcast day. The industry standard dayparts (for the Eastern and Pacific time zones) are: Early Morning 6:00 AM - 9:00 AM, Daytime 9:00 AM - 4:00 PM, Early Fringe 4:00 PM - 7:00 PM, Prime Access 7:00 PM - 8:00 PM, Prime 8:00 PM - 11:00 PM, Late Fringe 11:00 PM - 2:00 AM, and Overnight 2:00 AM - 6:00 AM. The All Day daypart runs from 6:00 AM to 6:00 AM.

DMA

DMA, a registered trademark of the Nielsen Company, stands for Designated Market Area. A DMA is the geographic area in which local television viewing is measured. There are 210 DMAs in the United States.

Duration

Run time of the ad copy in seconds.

DVR

A measurement (Average Audience, Rating, etc.) from DVR viewing alone.

E

Eastern Time

Air time of the telecast in the Eastern Time Zone. Use the Eastern Time to determine a network's National Time. If the national time and eastern time are the same, the network's national time is Eastern. If the national time is one hour earlier than eastern time, the network's national time is Central. If it is three hours earlier than eastern time, the network's national time is Pacific.

F

First View

Once a daypart begins, a first view occurs when an STB changes channels to a network and watches the network for at least five minutes before changing to another network and watching for at

least five minutes.

H

Hours per Viewing Household

Hours viewed per viewing household during the selected time frame.

Household Universe Estimate

The total number of TV households in the market or nation, used as the denominator in the Rating calculation.

Households

Number of unique households that viewed an entity (telecast, series, or network) during a given time frame. A view must be at least one minute.

HUT

The gross percentage of TV households in the market or the nation watching television during a given time frame. Calculated by summing the Ratings of all programming during the time frame.

I

Index

In demographic reports, Index measures the relative viewership of the segment households, compared to the viewership in all national households. In Simmons reports, Index measures the relative viewership of the Simmons variable respondents to the viewership in all national households. If the index is greater than 100, the segment or variable watched the programming at a higher rate than the nation. For example, an index of 120 means that the average segment or variable household watched 20% more of the programming than the average household. If the index is less than 100, the segment or variable watched at a lesser rate.

L

Live + DVR

A measurement (Average Audience, Rating, etc.) from live and DVR viewing combined.

Local Time

Air time of the telecast in the local market.

M

Market to National Variance

The percentage by which market rating varies from a national rating.

N

National Time

Air time of a telecast in the network's home market. Most -- but not all -- networks use the Eastern Time Zone as their national time. Use the Eastern Time to determine a network's National Time. If the national time and eastern time are the same, the network's national time is Eastern. If the national time is one hour earlier than eastern time, the network's national time is Central. If it is three hours earlier than eastern time, the network's national time is Pacific.

R

Rating (Demographic Rating)

A Demographic Rating is the series or network Rating, among only the segment households in the nation. Calculated as Demographic Average Audience / Demographic Household Universe Estimate.

Rating (Household Rating)

A Household Rating is the percentage of TV households in the selected market or the nation that viewed the entity (telecast, series, or network). The number of TV households is commonly called the Household Universe Estimate (HH UE). Household Rating is calculated by dividing Average Audience by the HH UE.

Rating Index

In the Series Comparison report, the series Rating relative to the other displayed series, where 100 is average.

Run Time

Length of a telecast or series episode in minutes.

S

Series

A periodically recurring TV program. In the Rentrak system, a group of episodes belongs to the same series, if the air times and run times round to the same fifteen minute offset (:00, :15, :30, or :45). For example, an episode that airs at 9:59 and runs for 61 minutes belongs to the same series as an episode that airs at 10:01 and airs for 59 minutes. The reports display the series air time as 10:00 and the series run time as 60 minutes.

Share

Among all TV households watching television during a given time frame, the percentage that watched a given entity (telecast, series, or network). Calculated as the Average Audience of the entity, relative to the Average Audience of all entities, within the given time frame.

STBs

Number of unique set-top boxes (STBs) that viewed an entity (telecast, series, or network) during a given time frame. A view must be at least one minute.

Stickiness Index

In the Series Comparison report, a measure of viewer involvement. Calculated as the series Average % Viewed, relative to all series Average % Viewed, where 100 is average.

T

Total Hours Viewed

For a given time frame, the total hours viewed of an entity (telecast, series, or network). Aggregated from all views of one minute or longer.

W

Weekpart

Time segments within a broadcast week: All Week (Mon - Sun), Weekdays (Mon - Fri), Weekend (Sat - Sun), or a specific day of the week (Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday).

Weighted Average Run Time

For national telecasts, average of market run times, weighted by each market's telecast Average Audience.