



# eyeQ Web API Reference

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## Overview

This document describes the Gracenote eyeQ™ web API for IPG (Interactive Programming Guide) application development. Use these APIs along with the guidelines in the *Gracenote eyeQ Bundle Implementation Guide* and the information in the *Gracenote eyeQ Web API Data Model Guide*.

## Retrieving TV Providers and TV Channels

Use the following APIs to look up TV providers and TV Channels for North America or Europe.

### TVPROVIDER\_LOOKUP for North America

Looks up North American TV Providers for a given locale (country and postal code).

Parameters	Description
COUNTRY and POSTALCODE	Required.

#### Example Query

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <COUNTRY>usa</COUNTRY>
  <QUERY CMD="TVPROVIDER_LOOKUP">
    <POSTALCODE>94608</POSTALCODE>
  </QUERY>
</QUERIES>
```

#### Example Response

```
<RESPONSES>
<RESPONSE STATUS="OK">
  <TVPROVIDER ORD="1">
    <GN_ID>a_gracernote_id</GN_ID>
    <NAME>Comcast</NAME>
    <PLACE>South San Francisco</PLACE>
    <PROVIDERTYPE>CAB</PROVIDERTYPE>
  </TVPROVIDER>
  <TVPROVIDER ORD="2">
    <GN_ID>a_gracernote_id</GN_ID>
    <NAME>Comcast</NAME>
    <PLACE>Oakland</PLACE>
    <PROVIDERTYPE>CAB</PROVIDERTYPE>
  </TVPROVIDER>
  <TVPROVIDER ORD="3">
    <GN_ID>a_gracernote_id</GN_ID>
    <NAME>AT&T U-verse TV</NAME>
    <PLACE>San Francisco</PLACE>
    <PROVIDERTYPE>CAB</PROVIDERTYPE>
  </TVPROVIDER>
  <TVPROVIDER ORD="4">
    <GN_ID>a_gracernote_id</GN_ID>
    <NAME>Broadcast area: 94563 in country: USA</NAME>
    <PROVIDERTYPE>DBC</PROVIDERTYPE>
  </TVPROVIDER>
  <TVPROVIDER ORD="5">
    <GN_ID>a_gracernote_id</GN_ID>
    <NAME>DISH San Francisco</NAME>
    <PLACE>San Francisco</PLACE>
    <PROVIDERTYPE>SAT</PROVIDERTYPE>
  </TVPROVIDER>
  <TVPROVIDER ORD="6">
    <GN_ID>a_gracernote_id</GN_ID>
    <NAME>DIRECTV San Francisco</NAME>
    <PLACE>San Francisco</PLACE>
    <PROVIDERTYPE>SAT</PROVIDERTYPE>
  </TVPROVIDER>
</RESPONSE>
</RESPONSES>
```

## TVCHANNEL\_LOOKUP (MODE=DVBIDS) for Europe

For European providers, this query looks up TV channels by DVB triplets. The client can send multiple DVBIDS structures at the same time. The client must match the returned DVBIDS of the channels to what it sent.

Parameters	Description
DVBIDS	Required. A DVB triplet has the format dvb://aaa.bbb.ccc and consists of these parts: <ONID>: the Original network ID (the first number). <TSID>: the Transport stream ID (the second number). <SID>: the Service ID (the third number). The DVBIDS structure requires all three.

**SELECT\_EXTENDED Options for TVCHANNEL\_LOOKUP**

Option Name	Valid For	Description
IMAGE	all	Channel logos will be returned, where available.

**Example Query**

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <QUERY CMD="TVCHANNEL_LOOKUP">
    <MODE>DVBIDS</MODE>
    <DVBIDS>
      <ONID>1</ONID>
      <TSID>1100</TSID>
      <SID>9322</SID>
    </DVBIDS>
    <DVBIDS>
      <ONID>133</ONID>
      <TSID>1</TSID>
      <SID>42</SID>
    </DVBIDS>
    ...
    <OPTION>
      <PARAMETER>SELECT_EXTENDED</PARAMETER>
      <VALUE>IMAGE</VALUE>
    </OPTION>
  </QUERY>
</QUERIES>
```

**Example Response**

The response includes the channel lineup from selected TV provider based on DVBIDS. Also returns DVB triplets, including their types.

DVD Triplet Value	Description
T	Terrestrial
C	Cable
S	Satellite
<i>none</i>	no type value

```
<RESPONSES>
  <RESPONSE STATUS="OK">
    <TVCHANNEL>
      <GN_ID>a_gracernote_id</GN_ID>
      <NAME>KTVU</NAME>
      <NAME_SHORT>KTVU</NAME_SHORT>
      <DVBIDS TYPE="T">
        <ONID>1</ONID>
        <TSID>1100</TSID>
        <SID>9322</SID>
      </DVBIDS>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
    <TVCHANNEL>
      <GN_ID>a_gracernote_id</GN_ID>
      <NAME>KNTV</NAME>
      <NAME_SHORT>KNTV</NAME_SHORT>
      <CHANNEL_NUM>3</CHANNEL_NUM>
      <DVBIDS TYPE="S">
        <ONID>133</ONID>
        <TSID>1</TSID>
        <SID>42</SID>
      </DVBIDS>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
    ...
  </RESPONSE>
</RESPONSES>
```

## TVCHANNEL\_LOOKUP (MODE=TVPROVIDER)

Looks up TV Channels provided by a given TV Provider. GN\_ID is the ID of the TVPROVIDER that the user selected from the results of TVPROVIDER\_LOOKUP. If SELECT\_EXTENDED=IMAGE, then channel logo URLs will be returned.

Parameters	Description
TVPROVIDER GN_ID	Required. The GN_ID of the selected TV Provider.

### SELECT\_EXTENDED Options for TVCHANNEL\_LOOKUP

Option Name	Valid For	Description
IMAGE	all	Channel logos will be returned, where available.

### Example Query

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <QUERY CMD="TVCHANNEL_LOOKUP">
    <MODE>TVPROVIDER</MODE>
    <GN_ID>a_gracenote_id</GN_ID>
    <OPTION>
      <PARAMETER>SELECT_EXTENDED</PARAMETER>
      <VALUE>IMAGE</VALUE>
    </OPTION>
  </QUERY>
</QUERIES>
```

### Example Response

```
<RESPONSES>
  <RESPONSE STATUS="OK">
    <TVCHANNEL ORD="1">
      <GN_ID>a_gracenote_id</GN_ID>
      <CHANNEL_NUM>002</CHANNEL_NUM>
      <NAME>KTVU</NAME>
      <NAME_SHORT>KTVU</NAME_SHORT>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
    <TVCHANNEL ORD="2">
      <GN_ID>a_gracenote_id</GN_ID>
      <CHANNEL_NUM>003</CHANNEL_NUM>
      <NAME>KNTV</NAME>
      <NAME_SHORT>KNTV</NAME_SHORT>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
    <TVCHANNEL ORD="3">
      <GN_ID>a_gracenote_id</GN_ID>
      <CHANNEL_NUM>004</CHANNEL_NUM>
      <NAME>KRON</NAME>
      <NAME_SHORT>KRON</NAME_SHORT>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
    <TVCHANNEL ORD="4">
      <GN_ID>a_gracenote_id</GN_ID>
      <CHANNEL_NUM>005</CHANNEL_NUM>
      <NAME>KPIX</NAME>
      <NAME_SHORT>KPIX</NAME_SHORT>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
    <TVCHANNEL ORD="5">
      <GN_ID>a_gracenote_id</GN_ID>
      <CHANNEL_NUM>006</CHANNEL_NUM>
      <NAME>KICU</NAME>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
    ...
    <TVCHANNEL ORD="72">
      <GN_ID>a_gracenote_id</GN_ID>
      <CHANNEL_NUM>082</CHANNEL_NUM>
      <NAME>The Golf Channel</NAME>
      <NAME_SHORT>GOLF</NAME_SHORT>
      <RANK>720000000</RANK>
      <URL TYPE="IMAGE">a_temporary_url</URL>
    </TVCHANNEL>
  </RESPONSE>
</RESPONSES>
```



## TVCHANNEL\_FETCH

Retrieves a TV Channel based on a TV Channel GN\_ID.

SELECT\_EXTENDED=IMAGE, then channel logo URLs will be returned.

Parameters	Description
TVCHANNEL GN_ID	Required. The GN_ID of the TV Channel to fetch.

### SELECT\_EXTENDED Options for TVCHANNEL\_FETCH

Option Name	Valid For	Description
IMAGE	all	Channel logo URLs will be returned, where available.
LINK	all	3rd party IDs assigned to the channel will be returned (XID), where available.

### Example query

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <QUERY CMD="TVCHANNEL_FETCH">
    <GN_ID>a_gracernote_id</GN_ID>
    <OPTION>
      <PARAMETER>SELECT_EXTENDED</PARAMETER>
      <VALUE>IMAGE, LINK</VALUE>
    </OPTION>
  </QUERY>
</QUERIES>
```

### Example Response

```
<RESPONSES>
<RESPONSE STATUS="OK">
  <TVCHANNEL>
    <GN_ID>a_gracenote_id</GN_ID>
    <NAME>CINÉ+ Club</NAME>
    <NAME_SHORT>CLUB</NAME_SHORT>
    <DVBIDS TYPE="T">
      <ONID>1</ONID>
      <TSID>1074</TSID>
      <SID>8351</SID>
    </DVBIDS>
    <RANK>720000000</RANK>
    <URL TYPE="IMAGE">a_temporary_url</URL>
    <XID DATASOURCE="tmsid">10760</XID>
    <RANK>0</RANK>
  </TVCHANNEL>
</RESPONSE>
</RESPONSES>
```


## Retrieving TV Grid EPG Data

To download EPG data for currently-airing programming use TVGRID\_LOOKUP. For general use cases and best practices, see "Retrieving and Managing EPG Data" in the *Gracenote eyeQ Bundle Implementation Guide*.

### TVGRID\_LOOKUP

TVGRID\_LOOKUP retrieves a dynamically-computed TV grid. See also [TVGRID\\_LOOKUP with MODE CONTRIBUTOR, AV\\_WORK, SERIES, SEASON \(see page 12\)](#).

For more information on using this query, see "Retrieving and Managing EPG Data" in the *Gracenote eyeQ Bundle Implementation Guide*.

Parameters	Description
TVCHANNEL GN_ID(s)	Required. The TV channel GN_IDs to use in the lookup.
DATE	Optional. Specifies the START date and time and END date and time for the query. If you do not specify DATE, the Gracenote Media Recognition Service uses a default date and time range. All times are Coordinated Universal Time (UTC). Currently, the default range is -1 hour to +5 hours in the future based on the current date and time of the query. <div> <b>Important</b> This default may change.</div>
RANGE	Optional. Used to enable paging of grid data. Use the <START> and <END> values to specify the range of grid items to show in the response. Use the COUNT value in the response to get the total number of items in the entire grid for the query. <COUNT> is always returned in the response.

## SELECT\_EXTENDED Options

Option Name	Description
TVPROGRAM_IMAGE	Returns URLs in the returned TV programs
IPGCATEGORY_IMAGE	Returns an image URL for the TV program's IPG Category. Use these images when the actual TV program image is unavailable or not usable. All of the URL images are returned as 300 dpi JPEGs (450x450). IPGCATEGORY_IMAGE returns images based on IPGCATEGORY_L2 (level 2). See the <a href="#">1.3.2 (see page 17)</a> query for a partial list. For a complete list, please contact your Gracenote Professional Services representative.



### Important

Your client application should not send all the channel GN\_IDs it has. Instead, send only the channels needed to build one or two pages of the on-screen grid.

## Example Query

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <QUERY CMD="TVGRID_LOOKUP">
    <TVCHANNEL>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
    </TVCHANNEL>
    <DATE TYPE="START">2011-07-26T05:00</DATE>
    <DATE TYPE="END">2011-07-26T10:00</DATE>
    <OPTION>
      <PARAMETER>SELECT_EXTENDED</PARAMETER>
      <VALUE>TVPROGRAM_IMAGE,IPGCATEGORY_IMAGE</VALUE>
    </OPTION>
    <RANGE>
      <!-- optional, only specify when paging -->
      <START>10</START>
      <END>20</END>
    </RANGE>
  </QUERY>
</QUERIES>
```

## Example Response

The response is self-contained. All TV programs referenced in all TV airing are returned. A TV Program does not have to be fully contained in the date range to be returned. The TV program will be returned even if it only partially falls into the date range. For example, the TV program is returned even if it begins before the date range begins but ends before the date range begins, and vice versa.


```

<RESPONSES>
  <RESPONSE STATUS="OK">
    <TVGRID>
      <TVPROGRAM>
        <GN_ID>a_gracernote_id</GN_ID>
        <TITLE>ZDF-Morgenmagazin</TITLE>
        <SYNOPSIS>a_synopsis</SYNOPSIS>
        <URL TYPE="IMAGE">a_temporary_url</URL>
      </TVPROGRAM>
      <TVPROGRAM>
        <GN_ID>a_gracernote_id</GN_ID>
        <TITLE>heute</TITLE>
        <SYNOPSIS>a_synopsis</SYNOPSIS>
      <TVPROGRAM>
        <GN_ID>a_gracernote_id</GN_ID>
        <TITLE>Rote Rosen</TITLE>
        <SYNOPSIS>a_synopsis</SYNOPSIS>
        <URL TYPE="IMAGE">a_temporary_url</URL>
        <URL TYPE="IPGCATEGORY_IMAGE">a_temporary_url</URL>
      </TVPROGRAM>
      ...
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T03:30"
END="2011-07-26T07:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T07:00"
END="2011-07-26T07:05"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T07:05"
END="2011-07-26T07:55"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T07:55"
END="2011-07-26T08:00"/>
      ...
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T03:30"
END="2011-07-26T08:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T08:00"
END="2011-07-26T08:30"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T08:30"
END="2011-07-26T09:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T09:00"
END="2011-07-26T10:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracernote_id" TVPROGRAM_GN_ID="a_gracernote_id" START="2011-07-26T10:00"
END="2011-07-26T11:00"/>
      ...
      <RANGE> <!-- always present -->
        <COUNT>55</COUNT>
        <START>10</START>
        <END>20</END>
      </RANGE>
    </TVGRID>
  </RESPONSE>
</RESPONSES>

```

## TVGRID\_LOOKUP with MODE CONTRIBUTOR, AV\_WORK, SERIES, SEASON

Returns a grid of upcoming showings of the Contributor, AV Work, Series or Season. See also [TVGRID\\_LOOKUP](#) (see page 10). For more information on using this query, see "Retrieving and Managing EPG Data" in the *Gracenote eyeQ Bundle Implementation Guide*.

Parameters	Description
MODE	Optional. CONTRIBUTOR, AV_WORK, SERIES, SEASON
TVCHANNEL GN_ID(s) and GN_IDs of target element (Contributor, AV Work, Series, or Season.	Required.
DATE	<p>Optional. Specifies the START date and time and END date and time for the query. If you do not specify DATE, the Gracenote Media Recognition Service uses a default date and time range. All times are Coordinated Universal Time (UTC). Currently, the default range is -1 hour to +5 hours in the future based on the current date and time of the query.</p> <div> <b>Caution</b> This default may change.</div>
RANGE	Optional. Used to enable paging of grid data. Use the <START> and <END> values to specify the range of grid items to show in the response. Use the COUNT value in the response to get the total number of items in the entire grid for the query. <COUNT> is always returned in the response.

### SELECT\_EXTENDED Options

Option Name	Description
TVPROGRAM_IMAGE	Returns URLs in the returned TV programs

### Example Query

```

<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <QUERY CMD="TVGRID_LOOKUP">
    <MODE>CONTRIBUTOR</MODE>
    <GN_ID>a_gracernote_id</GN_ID>
    <TVCHANNEL>
      <GN_ID>a_gracernote_id</GN_ID>
      <GN_ID>a_gracernote_id</GN_ID>
      <GN_ID>a_gracernote_id</GN_ID>
      <GN_ID>a_gracernote_id</GN_ID>
      <GN_ID>a_gracernote_id</GN_ID>
    </TVCHANNEL>
    <DATE TYPE="START">2011-07-26T05:00</DATE>
    <DATE TYPE="END">2011-07-26T10:00</DATE>
    <OPTION>
      <PARAMETER>SELECT_EXTENDED</PARAMETER>
      <VALUE>TVPROGRAM_IMAGE</VALUE>
    </OPTION>
    <RANGE>
      <!-- optional, only specify when paging -->
      <START>10</START>
      <END>20</END>
    </RANGE>
  </QUERY>
</QUERIES>

```

### Example Response

- Response is identical to [TVGRID\\_LOOKUP](#) (see page 10), but only contains grid items referring to TV Programs that contain the specified GN\_ID.

## Retrieving TV Programs

### TVPROGRAM\_FETCH

Fetches the full metadata for a TV Program. If SELECT\_EXTENDED=IMAGE, an image URL is returned for the TVPROGRAM, if available. If SELECT\_EXTENDED=CONTRIBUTOR\_IMAGE, image URLs is returned for Contributors. IF SELECT\_EXTENDED=IPGCATEGORY\_IMAGE, an image URL is returned for IPG Category of the TV program. TVPROGRAM\_FETCH does not retrieve TV GRID data (like TV programs and their TV airings). To get this data, use TVGRID\_LOOKUP and use the TVCHANNEL GN\_ID(s) as input.

To specify an image size for TV programs (SELECT\_EXTENDED=IMAGE) and TV categories (SELECT\_EXTENDED=IPGCATEGORY\_IMAGE), use the IMAGE\_SIZE option. Values for this option are: THUMBNAIL, SMALL, MEDIUM, LARGE, XLARGE. The default size is MEDIUM. The SIZE attribute in URL response indicates the returned size.

IMAGE_SIZE Value	Image Size
THUMBNAIL	75x75
SMALL	170x170
MEDIUM	450x450
LARGE	720x720
XLARGE	1080x1080

**Note**

TV Channel images (logos) are not affected by IMAGE\_SIZE.

Parameters	Description
GN_ID of the TV program	Required.

**SELECT\_EXTENDED Options**

Option Name	Description
IMAGE	Returns image URL for the TV program
CONTRIBUTOR_IMAGE	Returns image URL for Contributors
IPGCATEGORY_IMAGE	Returns an image URL for the TV program's IPG Category. Use these images when the actual TV program image is unavailable or not usable. All of the URL images are returned as 300 dpi JPEGs (450x450). IPGCATEGORY_IMAGE returns images based on IPGCATEGORY_L2 (level 2). See the <a href="#">1.3.2 (see page 17)</a> query for a partial list. For a complete list, please contact your Gracenote Professional Services representative.
LINK	3rd party IDs assigned to the channel will be returned (XID), where available.

**Example Query**

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <QUERY CMD="TVPROGRAM_FETCH">
    <GN_ID>a_gracenote_id</GN_ID>
    <OPTION>
      <PARAMETER>SELECT_EXTENDED</PARAMETER>
      <VALUE>IMAGE, CONTRIBUTOR_IMAGE, IPGCATEGORY_IMAGE, LINK</VALUE>
    </OPTION>
    <OPTION>
      <PARAMETER>IMAGE_SIZE</PARAMETER>
```


```
<VALUE>LARGE,MEDIUM</VALUE>
</OPTION>
</QUERY>
</QUERIES>
```

Example Response

```
<RESPONSES>
<RESPONSE STATUS="OK">
  <TVPROGRAM ORD="1">
    <GN_ID>a_gracenote_id</GN_ID>
    <TITLE>Iron Man</TITLE>
    <SYNOPSIS>a_synopsis</SYNOPSIS>
    <IPGCATEGORY>
      <IPGCATEGORY_L1 ID="a_gracenote_id">Movie</IPGCATEGORY_L1>
      <IPGCATEGORY_L2 ID="a_gracenote_id">Drama</IPGCATEGORY_L2>
    </IPGCATEGORY>
    <CONTRIBUTOR RANK="1">
      <NAME>Robert Downey Jr.</NAME>
      <GN_ID>a_gracenote_id</GN_ID>
      <URL TYPE="IMAGE" SIZE="MEDIUM">a_temporary_url</URL>
      <CONTRIBUTION>
        <CHARACTER>Tony Stark/Iron Man</CHARACTER>
      </CONTRIBUTION>
    </CONTRIBUTOR>
    ...
    <URL TYPE="IMAGE" SIZE="LARGE">a_temporary_url</URL>
    <URL TYPE="IPGCATEGORY_IMAGE" SIZE="LARGE">a_temporary_url</URL>
    <XID DATASOURCE="tmsid">10760</XID>
  </TVPROGRAM>
</RESPONSE>
</RESPONSES>
```

TVGRID\_SEARCH

Searches TV Program titles in the specified grid and returns matching grid items. See also [TVGRID\\_LOOKUP](#) (see page 10).

Parameters	Description
TVPROGRAM_TITLE	Required. The title of the TV program.
TVCHANNEL_GN_ID	Optional. Specifies one or more TV Channel GN_IDs for the search.
DATE	Optional. Specifies the START date and time and END date and time for the query. If you do not specify DATE, the Gracenote Media Recognition Service uses a default date and time range. All times are Coordinated Universal Time (UTC). Currently, the default range is -1 hour to +5 hours in the future based on the current date and time of the query. <div> <b>Caution</b> This default may change.</div>
RANGE	



Optional. Used to enable paging of grid data. Use the <START> and <END> values to specify the range of grid items to show in the response. Use the COUNT value in the response to get the total number of items in the entire grid for the query. <COUNT> is always returned in the response.

SELECT\_EXTENDED Options

Option Name	Description
TVPROGRAM_IMAGE	Returns URLs in the returned TV programs
IPGCATEGORY_IMAGE	Returns an image URL for the TV program's IPG Category. Use these images when the actual TV program image is unavailable or not usable. All of the URL images are returned as 300 dpi JPEGs (450x450). IPGCATEGORY_IMAGE returns images based on IPGCATEGORY_L2 (level 2). See the 1.3.2 (see page 17) query for a partial list. For a complete list, please contact your Gracenote Professional Services representative.

Example Query

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <QUERY CMD="TVGRID_SEARCH">
    <TEXT TYPE="TVPROGRAM_TITLE">liebe</TEXT>
    <TVCHANNEL>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
      <GN_ID>a_gracenote_id</GN_ID>
    </TVCHANNEL>
    <DATE TYPE="START">2011-07-26T05:00</DATE>
    <DATE TYPE="END">2011-07-26T10:00</DATE>
    <OPTION>
      <PARAMETER>SELECT_EXTENDED</PARAMETER>
      <VALUE>TVPROGRAM_IMAGE</VALUE>
    </OPTION>
    <RANGE> <!-- optional, only specify when paging -->
      <START>10</START>
      <END>20</END>
    </RANGE>
  </QUERY>
</QUERIES>
```

Example Response

Response is identical to TVGRID\_LOOKUP (see page 10), but only contains grid items referring to TV Programs whose title matched the search.

FIELDVALUES

The FIELDVALUES query retrieves all ID/string pairs for a list- or descriptor based field.

Parameters	Description
<FIELDNAME>	Required. One of the following: <ul style="list-style-type: none"><li>• IPGCATEGORY_L1</li><li>• IPGCATEGORY_L2,</li><li>• PRODUCTION_TYPE</li><li>• EPGPRODUCTION_TYPE</li><li>• CONTRIBUTION_TYPE</li><li>• ORIGIN</li></ul>
<MEDIASPACE>	Required for CONTRIBUTION_TYPE: either MUSIC or VIDEO

The response will contain all ID/string pairs currently available. Strings are localized to the specified language preference, if available.

**Warning**

Do not hardcode the returned values in the client application or elsewhere. These values can and will change.

This query is useful for any client application that needs to process all potential IPG Category values. For example, the application might color-code particular values, or use the full list to implement searching or filtering by type. Because the list values may change over time, the FIELDVALUES query is useful to get the current set of available string and integer identifier pairs. Below is a partial list of IPG Category values. For a complete list, please contact your Gracenote Professional Services representative.

**IPGCATEGORY\_L1**

- Entertainment
- Kids
- Movie
- Music
- News
- Sports
- Topics / Documentary
- TV Series

**IPGCATEGORY\_L2 (Partial)**

- Action
- Adult
- Adventure
- Animation
- Art / Experimental
- Athletics / Track & Field
- Baseball
- Basketball
- Biopics
- Boxing

- Classic / Literature
- Comedy
- ...

### Example Query

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>eng</LANG>
  <QUERY CMD="FIELDVALUES">
    <FIELDNAME>IPGCATEGORY_L1</FIELDNAME>
    <MEDIASPACE>VIDEO</MEDIASPACE>
  </QUERY>
</QUERIES>
```

### Example Response

```
<RESPONSES>
  <RESPONSE STATUS="OK">
    <IPGCATEGORY_L1 ID="a_gracernote_id">Movie</IPGCATEGORY_L1>
    <IPGCATEGORY_L1 ID="a_gracernote_id">TV Series</IPGCATEGORY_L1>
    <IPGCATEGORY_L1 ID="a_gracernote_id">Sports</IPGCATEGORY_L1>
    <IPGCATEGORY_L1 ID="a_gracernote_id">News / Info</IPGCATEGORY_L1>
    <IPGCATEGORY_L1 ID="a_gracernote_id">Entertainment</IPGCATEGORY_L1>
    <IPGCATEGORY_L1 ID="a_gracernote_id">Music</IPGCATEGORY_L1>
    <IPGCATEGORY_L1 ID="a_gracernote_id">Kids</IPGCATEGORY_L1>
    <IPGCATEGORY_L1 ID="a_gracernote_id">Topics / Documentary</IPGCATEGORY_L1>
  </RESPONSE>
</RESPONSES>
```

### Example Query using CONTRIBUTION\_TYPE

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <COUNTRY>usa</COUNTRY>
  <LANG>eng</LANG>
  <QUERY CMD="FIELDVALUES">
    <FIELDNAME>CONTRIBUTION_TYPE</FIELDNAME>
    <MEDIASPACE>VIDEO</MEDIASPACE>
  </QUERY>
</QUERIES>
```

### Example Response using CONTRIBUTION\_TYPE

```

<RESPONSES>
  <RESPONSE STATUS="OK">
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Cast</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Actor</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Dancer</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Guest</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Host</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Narrator</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Puppeteer</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Voice-Of</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Appearance</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Body Double</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Cameo</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Commentator</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Extra</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Participant</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Playback Singer</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Stand-In</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Crew</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Cameraperson</CONTRIBUTION_TYPE>
    ...
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Sound Utility</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Stylist</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Supervising Dialog Editor</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Surround Mix</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Wardrobe</CONTRIBUTION_TYPE>
    <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracernote_id">Other</CONTRIBUTION_TYPE>
  </RESPONSE>
</RESPONSES>

```

## URL\_GET to Retrieve All Image URLs

You can use URL\_GET to retrieve the URLs of all images for a group of GN\_IDs. To specify an image size for TV programs (TVPROGRAM\_IMAGE) and TV categories (IPGCATEGORY\_IMAGE), use the IMAGE\_SIZE option. Values for this option are: THUMBNAIL, SMALL, MEDIUM, LARGE, XLARGE. The default size is MEDIUM. The SIZE attribute in URL response indicates the returned size.

### Warning

For performance reasons, do not send more than 100 GN\_IDs at one time.

### Image Sizes

The following are image size values for all returned images *except* for TV channel logo images. The size and aspect ratio of channel logos does not conform to the standard sizes of other images. The default logo size will fit within a canvas area of 110x50, although may not fill this area entirely.

IMAGE_SIZE Value	Image Size
THUMBNAIL	75x75
SMALL	170x170

MEDIUM	450x450
LARGE	720x720
XLARGE	1080x1080

Parameters	Description
GN_ID	Required. GN_IDs of target elements (TV Program, Contributor, AV Work)
MODE	<p>Required. One per query:</p> <ul style="list-style-type: none"> <li>AV_WORK_IMAGE: Returns all AV Work images for the provided GN_IDs. By default, URL_GET returns the first image size it finds for an image. To retrieve all image sizes, see 1.3.2.</li> <li>CONTRIBUTOR_IMAGE: Returns all contributor images for the provided GN_IDs.</li> <li>IPGCATEGORY_IMAGE: Returns all available images for the IPG Category. Use these images when the actual TV program image is unavailable or not usable. All of the URL images are returned as 300 dpi JPEGs (450x450). IPGCATEGORY_IMAGE returns images based on IPGCATEGORY_L2 (level 2). See the <a href="#">FIELDVALUES (see page 17)</a> query for a partial list. For a complete list, please contact your Gracenote Professional Services representative.</li> <li>TVCHANNEL_IMAGE: Returns all TV channel images (logos) for the provided GN_ID. The size and aspect ratio of channel logos does not conform to the standard sizes of other images. The default logo size will fit within a canvas area of 110x50, although may not fill this area entirely.</li> <li>TVPROGRAM_IMAGE: Returns all TV program images for the provided GN_IDs.</li> </ul>

### Example Query for MODE=AV\_WORK\_IMAGE

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <QUERY CMD="URL_GET">
    <MODE>AV_WORK_IMAGE</MODE>
    <GN_ID>a_gracenote_id</GN_ID>
    <GN_ID>a_gracenote_id</GN_ID>
    <GN_ID>a_gracenote_id</GN_ID>
    <GN_ID>a_gracenote_id</GN_ID>
    <OPTION>
      <PARAMETER>IMAGE_SIZE</PARAMETER>
      <VALUE>XLARGE,SMALL</VALUE>
    </OPTION>
  </QUERY>
</QUERIES>
```

### Example Response for MODE=AV\_WORK\_IMAGE

```
<RESPONSES>
  <RESPONSE STATUS="OK">
    <AV_WORK>
      <GN_ID>a_gracenote_id</GN_ID>
      <URL TYPE="IMAGE" SIZE="SMALL">a_temporary_url</URL>
    </AV_WORK>
    <AV_WORK>
      <GN_ID>a_gracenote_id</GN_ID>
      <URL TYPE="IMAGE" SIZE="XLARGE">a_temporary_url</URL>
    </AV_WORK>
  </RESPONSE>
</RESPONSES>
```

```

    <!-- if any are missing in the response, it means a URL could not be found for them -->
  </RESPONSE>
</RESPONSES>

```

### Example Query for MODE=IPGCATEGORY\_IMAGE

```

<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <QUERY CMD="URL_GET">
    <MODE>IPGCATEGORY_IMAGE</MODE>
    <IPGCATEGORY_L2_ID>67856</IPGCATEGORY_L2_ID>
  </QUERY>
</QUERIES>

```

## Retrieving All Image Sizes

By default, URL\_GET returns the first image size it finds for an image. To retrieve all image sizes, use URL\_GET with MODE=AV\_WORK\_IMAGE and the option ALL\_IMAGE\_SIZES=YES.

### Example Query

```

<QUERIES>
  <AUTH>
    ...
  </AUTH>
  <QUERY CMD="URL_GET">
    <MODE>AV_WORK_IMAGE</MODE>
    <GN_ID>a_gracernote_id</GN_ID>
    <GN_ID>a_gracernote_id</GN_ID>
    <OPTION>
      <PARAMETER>ALL_IMAGE_SIZES</PARAMETER>
      <VALUE>YES</VALUE>
    </OPTION>
    <OPTION>
      <PARAMETER>IMAGE_SIZE</PARAMETER>
      <VALUE>THUMBNAI L ,SMALL ,MEDIUM</VALUE>
    </OPTION>
  </QUERY>
</QUERIES>

```

### Example Response

URL\_GET returns URLs to the available sizes for each image within a URLGROUP structure of type IMAGE.

```

<RESPONSES>
  <RESPONSE STATUS="OK">
    <AV_WORK>
      <GN_ID>a_gracernote_id</GN_ID>

```

```
<URLGROUP TYPE="IMAGE">
  <URL TYPE="IMAGE" SIZE="THUMBNAIL">a_temporary_url</URL>
  <URL TYPE="IMAGE" SIZE="SMALL">a_temporary_url</URL>
  <URL TYPE="IMAGE" SIZE="MEDIUM">a_temporary_url</URL>
</URLGROUP>
<URLGROUP TYPE="IMAGE_GALLERY">
  <URL TYPE="IMAGE_GALLERY" SIZE="THUMBNAIL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="SMALL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="MEDIUM">a_temporary_url</URL>
</URLGROUP>
<URLGROUP TYPE="IMAGE_GALLERY">
  <URL TYPE="IMAGE_GALLERY" SIZE="THUMBNAIL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="SMALL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="MEDIUM">a_temporary_url</URL>
</URLGROUP>
<URLGROUP TYPE="IMAGE_GALLERY">
  <URL TYPE="IMAGE_GALLERY" SIZE="THUMBNAIL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="SMALL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="MEDIUM">a_temporary_url</URL>
</URLGROUP>
<URLGROUP TYPE="IMAGE_GALLERY">
  <URL TYPE="IMAGE_GALLERY" SIZE="THUMBNAIL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="SMALL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="MEDIUM">a_temporary_url</URL>
</URLGROUP>
<URLGROUP TYPE="IMAGE_GALLERY">
  <URL TYPE="IMAGE_GALLERY" SIZE="THUMBNAIL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="SMALL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="MEDIUM">a_temporary_url</URL>
</URLGROUP>
<URLGROUP TYPE="IMAGE_GALLERY">
  <URL TYPE="IMAGE_GALLERY" SIZE="THUMBNAIL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="SMALL">a_temporary_url</URL>
  <URL TYPE="IMAGE_GALLERY" SIZE="MEDIUM">a_temporary_url</URL>
</URLGROUP>
</AV_WORK>
<AV_WORK>
  <GN_ID>a_gracenote_id</GN_ID>
  <URLGROUP TYPE="IMAGE">
    <URL TYPE="IMAGE" SIZE="THUMBNAIL">a_temporary_url</URL>
    <URL TYPE="IMAGE" SIZE="SMALL">a_temporary_url</URL>
    <URL TYPE="IMAGE" SIZE="MEDIUM">a_temporary_url</URL>
  </URLGROUP>
  <URLGROUP TYPE="IMAGE_GALLERY">
    <URL TYPE="IMAGE_GALLERY" SIZE="THUMBNAIL">a_temporary_url</URL>
    <URL TYPE="IMAGE_GALLERY" SIZE="SMALL">a_temporary_url</URL>
    <URL TYPE="IMAGE_GALLERY" SIZE="MEDIUM">a_temporary_url</URL>
  </URLGROUP>
</AV_WORK>
</RESPONSE>
</RESPONSES>
```