eyeQ Web API Reference

Product Version 1.5.0

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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_gracenote_id</GN_ID>
       <NAME>Comcast</NAME>
       <PLACE>South San Francisco</PLACE>
       <PROVIDERTYPE>CAB</PROVIDERTYPE>
   </TVPROVIDER>
   <TVPROVIDER ORD="2">
       <GN_ID>a_gracenote_id</GN_ID>
       <NAME>Comcast</NAME>
       <PLACE>Oakland</PLACE>
       <PROVIDERTYPE>CAB</PROVIDERTYPE>
   </TVPROVIDER>
   <TVPROVIDER ORD="3">
       <GN_ID>a_gracenote_id</GN_ID>
       <NAME>AT&amp;T U-verse TV</NAME>
       <PLACE>San Francisco</PLACE>
       <PROVIDERTYPE>CAB</PROVIDERTYPE>
   </TVPROVIDER>
   <TVPROVIDER ORD="4">
       <GN_ID>a_gracenote_id</GN_ID>
       <NAME>Broadcast area: 94563 in country: USA</NAME>
       <PROVIDERTYPE>DBC</PROVIDERTYPE>
   </TVPROVIDER>
   <TVPROVIDER ORD="5">
       <GN_ID>a_gracenote_id</GN_ID>
       <NAME>DISH San Francisco</NAME>
       <PLACE>San Francisco</PLACE>
       <PROVIDERTYPE>SAT</PROVIDERTYPE>
   </TVPROVIDER>
   <TVPROVIDER ORD="6">
       <GN_ID>a_gracenote_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, 'aaa'). <TSID>: the Transport stream ID (the second number, 'bbb'). <SID>: the Service ID (the third number, 'ccc'). 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.

IMAGE_SIZE Option for TVCHANNEL_LOOKUP

Option Name	Valid For	Description
IMAGE_SIZE	all	Specifies the size of the TV channel logo to return. Possible values are 110 or 220.

Example Query

```
<QUERIES>
    <AUTH>
        <CLIENT>client_id_string</CLIENT>
        <USER>user_id_string</USER>
    </AUTH>
    <LANG>eng</LANG>
    <COUNTRY>usa</COUNTRY>
    <QUERY CMD="TVCHANNEL_LOOKUP">
        <MODE>DVBIDS</MODE>
        <DVBIDS>
            <ONID>6</ONID>
            <TSID>9999</TSID>
            <SID>999</SID>
        </DVBIDS>
        <OPTION>
            <PARAMETER>SELECT_EXTENDED</PARAMETER>
            <VALUE>IMAGE</VALUE>
        </OPTION>
        <OPTION>
            <PARAMETER>IMAGE_SIZE></PARAMETER>
        <VALUE>110</VALUE>
        </OPTION>
    </QUERY>
</QUERIES>
```

Example Response

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

DVB Triplet TYPE Value	Description
T	Terrestrial
C	Cable
S	Satellite

none	no type value

Other response values

- NAME: The TV Channel name.
- NAME_SHORT: The short name of the TV Channel.
- COUNTRY: The country name.
- CALLSIGN: The DVB-SI TV Channel name. One or more, depending on the channel.

ⓘ Note

Some countries use duplicate DVBIDs. To disambiguate these IDs, devices should use a combination of the DVBID, the channel callsigns, and possibly the country, to create a unique ID for the channel. For example:

- Dvb://6.9999.999/jednotka
- Dvb://6.9999.999/STV 1
- Dvb://6.9999.999/STV1
- Dvb://6.9999.999/TA3
- Dvb://6.9999.999/STV2
- Dvb://6.9999.999/STV 2
- Dvb://6.9999.999/Markiza

For more information about the response data model, see the *eyeQ Bundle Data Model Guide*.

```xml
<RESPONSE STATUS="OK">
    <TVCHANNEL>
        <GN_ID>a_gracenote_id</GN_ID>
        <NAME>Jednotka</NAME>
        <NAME_SHORT>Jednotka</NAME_SHORT>
        <COUNTRY>SVK</COUNTRY>
        <CALLSIGN>STV 1</CALLSIGN>
        <CALLSIGN>STV1</CALLSIGN>
        <DVBIDS TYPE="T">
            <ONID>3</ONID>
            <TSID>3207</TSID>
            <SID>5105</SID>
        </DVBIDS>
        <DVBIDS TYPE="T">
            <ONID>6</ONID>
            <TSID>9999</TSID>
            <SID>999</SID>
        </DVBIDS>
        <URL TYPE="IMAGE" SIZE="110">a_temporary_url_to_a_TV_channel_image</URL>
        <RANK>720000000</RANK>
    </TVCHANNEL>
    <TVCHANNEL>
        <GN_ID>a_gracenote_id</GN_ID>
        <NAME>TA3</NAME>
        <NAME_SHORT>TA3</NAME_SHORT>
        <COUNTRY>AUT</COUNTRY>
        <COUNTRY>SVK</COUNTRY>
        <DVBIDS TYPE="T">
            <ONID>3</ONID>
            <TSID>21</TSID>
```

```
            <SID>8005</SID>
        </DVBIDS>
        <DVBIDS TYPE="T">
            <ONID>3</ONID>
            <TSID>3207</TSID>
            <SID>5107</SID>
        </DVBIDS>
        <DVBIDS TYPE="T">
            <ONID>6</ONID>
            <TSID>9999</TSID>
            <SID>999</SID>
        </DVBIDS>
        <DVBIDS TYPE="T">
            <ONID>111</ONID>
            <TSID>21</TSID>
            <SID>8005</SID>
        </DVBIDS>
        <URL TYPE="IMAGE" SIZE="110">a_temporary_url_to_a_TV_channel_image</URL>
        <RANK>0</RANK>
    </TVCHANNEL>
    <TVCHANNEL>
        <GN_ID>a_gracenote_id</GN_ID>
        <NAME>Dvojka</NAME>
        <NAME_SHORT>Dvojka</NAME_SHORT>
        <COUNTRY>SVK</COUNTRY>
        <CALLSIGN>STV 2</CALLSIGN>
        <CALLSIGN>STV2</CALLSIGN>
        <DVBIDS TYPE="T">
            <ONID>3</ONID>
            <TSID>3207</TSID>
            <SID>5106</SID>
        </DVBIDS>
        <DVBIDS TYPE="T">
            <ONID>6</ONID>
            <TSID>9999</TSID>
            <SID>999</SID>
        </DVBIDS>
        <URL TYPE="IMAGE" SIZE="110">a_temporary_url_to_a_TV_channel_image</URL>
        <RANK>720000000</RANK>
    </TVCHANNEL>
    <TVCHANNEL>
        <GN_ID>a_gracenote_id</GN_ID>
        <NAME>Markiza</NAME>
        <NAME_SHORT>Markiza</NAME_SHORT>
        <COUNTRY>SVK</COUNTRY>
        <DVBIDS TYPE="T">
            <ONID>3</ONID>
            <TSID>3207</TSID>
            <SID>5103</SID>
        </DVBIDS>
        <DVBIDS TYPE="T">
            <ONID>3</ONID>
            <TSID>3221</TSID>
            <SID>5044</SID>
        </DVBIDS>
        <DVBIDS TYPE="T">
            <ONID>6</ONID>
```

```
            <TSID>9999</TSID>
            <SID>999</SID>
        </DVBIDS>
        <URL TYPE="IMAGE" SIZE="110">a_temporary_url_to_a_TV_channel_image</URL>
        <RANK>720000000</RANK>
    </TVCHANNEL>
  </RESPONSE>
 </RESPONSES>
```

TVCHANNEL_LOOKUP (MODE=TRANSPORTIDS) for Other Broadcast Systems

In addition DVB, there are other channel broadcast systems such as ISDB (used in Japan and South America). This query can be used to look up channels that use other broadcast systems. It currently supports ISDB look ups. The query can be extended when new broadcast systems are defined and supported.

The client sends a TRANSPORTIDS structure that contains the system type (such as ISDB) and the identifiers (the ISDB triplet). The client can send multiple TRANSPORTIDS structures at the same time. The client must match the returned TRANSPORTIDS of the channels to what it sent.

Parameters	Description
TRANSPORTIDS	Required. SYSTEM. Currently ISDB is the only value supported. TRANSPORTID. The ISDB triplet has the format ISDB://aaa.bbb.ccc and is specified in three TRANSPORTID tags. The TYPE can be: ONID: the Original network ID (the first number, 'aaa'). TSID: the Transport stream ID (the second number, 'bbb'). SID: the Service ID (the third number, 'ccc'). The TRANSPORTIDS structure requires all three.

SELECT_EXTENDED Options for TVCHANNEL_LOOKUP

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

IMAGE_SIZE Option for TVCHANNEL_LOOKUP

Option Name	Valid For	Description
IMAGE_SIZE	all	Specifies the size of the TV channel logo to return. Possible values are 110 or 220.

Example Query

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <LANG>ger</LANG>
  <QUERY CMD="TVCHANNEL_LOOKUP">
    <MODE>TRANSPORTIDS</MODE>
    <TRANSPORTIDS SYSTEM = "ISDB" >
        <TRANSPORTID TYPE="ONID">1875</TRANSPORTID>
        <TRANSPORTID TYPE="TSID">1875</TRANSPORTID>
        <TRANSPORTID TYPE="SID">60000</TRANSPORTID>
    </TRANSPORTIDS>
    <TRANSPORTIDS SYSTEM = "ISDB" >
        <TRANSPORTID TYPE="ONID">1855</TRANSPORTID>
        <TRANSPORTID TYPE="TSID">115</TRANSPORTID>
        <TRANSPORTID TYPE="SID">59360</TRANSPORTID>
    </TRANSPORTIDS>
     ...
     <OPTION>
       <PARAMETER>SELECT_EXTENDED</PARAMETER>
       <VALUE>IMAGE</VALUE>
     </OPTION>
     <OPTION>
        <PARAMETER>IMAGE_SIZE</PARAMETER>
        <VALUE>110</VALUE>
     </OPTION>
  </QUERY>
</QUERIES>
```

Example Response

The response includes the channels from selected TV provider based on TRANSPORTIDS. The actual data returned will depend on the broadcast system. For ISDB, the triplet data is returned. If there is specific channel information specified (CHANNEL_LOCATOR), that will be returned as well.

ISDB SUBSYSTEM Value	Description
T	Terrestrial
C	Cable
S	Satellite
none	no type value

```
<RESPONSES>
 <RESPONSE STATUS="OK">
   <TVCHANNEL>
       <GN_ID>a_gracenote_id</GN_ID>
       <NAME>J SPORTS 4</NAME>
       <NAME_SHORT>JS4</NAME_SHORT>
       <TRANSPORTIDS SYSTEM="ISDB-J" SUBSYSTEM="B">
           <TRANSPORTID TYPE="ONID">4</TRANSPORTID>
           <TRANSPORTID TYPE="TSID">18258</TRANSPORTID>
           <TRANSPORTID TYPE="SID">245</TRANSPORTID>
           <CHANNEL_LOCATOR ORD="24">
               <CHANNEL_NUM>245</CHANNEL_NUM>
           </CHANNEL_LOCATOR>
       </TRANSPORTIDS>
       <RANK>720000000</RANK>
       <URL TYPE="IMAGE">a_temporary_url_to_a_TV_channel_image</URL>
   </TVCHANNEL>
   <TVCHANNEL>
       <GN_ID>a_gracenote_id</GN_ID>
       <NAME>MTV</NAME>
       <NAME_SHORT>MTV</NAME_SHORT>
       <TRANSPORTIDS SYSTEM="ISDB" SUBSYSTEM="T">
           <TRANSPORTID TYPE="ONID">1875</TRANSPORTID>
           <TRANSPORTID TYPE="TSID">1875</TRANSPORTID>
           <TRANSPORTID TYPE="SID">60000</TRANSPORTID>
       </TRANSPORTIDS>
       <RANK>720000000</RANK>
       <URL TYPE="IMAGE">a_temporary_url_to_a_TV_channel_image</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.

IMAGE_SIZE Option for TVCHANNEL_LOOKUP

Option Name	Valid For	Description
IMAGE_SIZE	all	Specifies the size of the TV channel logo to return. Possible values are 110 or 220.

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>
    <OPTION>
       <PARAMETER>IMAGE_SIZE></PARAMETER>
       <VALUE>110</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_to_a_TV_channel_image</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_to_a_TV_channel_image</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_to_a_TV_channel_image</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_to_a_TV_channel_image</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_to_a_TV_channel_image</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_to_a_TV_channel_image</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.

IMAGE_SIZE Option for TVCHANNEL_FETCH

Option Name	Valid For	Description
IMAGE_SIZE	all	Specifies the size of the TV channel logo to return. Possible values are 110 or 220.

Example query

```
<QUERIES>
    <AUTH>
        <CLIENT>client_id_string</CLIENT>
        <USER>user_id_string</USER>
    </AUTH>
    <LANG>eng</LANG>
    <COUNTRY>usa</COUNTRY>
    <QUERY CMD="TVCHANNEL_FETCH">
        <GN_ID>a_gracenote_id<</GN_ID>
        <OPTION>
            <PARAMETER>SELECT_EXTENDED</PARAMETER>
            <VALUE>IMAGE</VALUE>
        </OPTION>
        <OPTION>
            <PARAMETER>IMAGE_SIZE></PARAMETER>
        <VALUE>110</VALUE>
        </OPTION>
    </QUERY>
</QUERIES>
```

Example Response

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

DVB Triplet TYPE Value	Description
T	Terrestrial
C	Cable
S	Satellite
none	no type value

Other response values

- NAME: The TV Channel name.
- NAME_SHORT: The short name of the TV Channel.
- COUNTRY: The country name.
- CALLSIGN: The DVB-SI TV Channel name. One or more, depending on the channel.

> **ⓘ Note**
>
> Some countries use duplicate DVBIDs. To disambiguate these IDs, devices should use a combination of the DVBID, the channel callsigns, and possibly the country, to create a unique ID for the channel. For example:
>
> - Dvb://6.9999.999/jednotka
> - Dvb://6.9999.999/STV 1
> - Dvb://6.9999.999/STV1
> - Dvb://6.9999.999/TA3
> - Dvb://6.9999.999/STV2
> - Dvb://6.9999.999/STV 2
> - Dvb://6.9999.999/Markiza

```
<RESPONSES>
 <RESPONSE STATUS="OK">
   <TVCHANNEL>
       <GN_ID>a_gracenote_id</GN_ID>
       <NAME>Jednotka</NAME>
       <NAME_SHORT>Jednotka</NAME_SHORT>
       <COUNTRY>SVK</COUNTRY>
       <CALLSIGN>STV 1</CALLSIGN>
       <CALLSIGN>STV1</CALLSIGN>
       <DVBIDS TYPE="T">
          <ONID>3</ONID>
          <TSID>3207</TSID>
          <SID>5105</SID>
       </DVBIDS>
       <DVBIDS TYPE="T">
          <ONID>6</ONID>
          <TSID>9999</TSID>
          <SID>999</SID>
       </DVBIDS>
       <URL TYPE="IMAGE" SIZE="110">a_temporary_url_to_a_TV_channel_image</URL>
       <RANK>720000000</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 18).

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.
	⚠ **Important** This default may change.
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 1.5.0 (see page 23) 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_gracenote_id</GN_ID>
         <TITLE>ZDF-Morgenmagazin</TITLE>
         <SYNOPSIS>a_synopsis</SYNOPSIS>
         <URL TYPE="IMAGE">a_temporary_url</URL>
      </TVPROGRAM>
      <TVPROGRAM>
         <GN_ID>a_gracenote_id</GN_ID>
         <TITLE>heute</TITLE>
         <SYNOPSIS>a_synopsis</SYNOPSIS>
      <TVPROGRAM>
         <GN_ID>a_gracenote_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_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T03:30"
END="2011-07-26T07:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T07:00"
END="2011-07-26T07:05"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T07:05"
END="2011-07-26T07:55"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T07:55"
END="2011-07-26T08:00"/>
      ...
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T03:30"
END="2011-07-26T08:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T08:00"
END="2011-07-26T08:30"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T08:30"
END="2011-07-26T09:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_id" START="2011-07-26T09:00"
END="2011-07-26T10:00"/>
      <TVAIRING TVCHANNEL_GN_ID="a_gracenote_id" TVPROGRAM_GN_ID="a_gracenote_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 15). 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	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. ⚠ **Caution** This default may change.
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_gracenote_id</GN_ID>
    <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 15), 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 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 1.5.0 (see page 23) 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 15).

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. ⚠ **Caution** This default may change.
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 1.5.0 (see page 23) 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 15), 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: • IPGCATEGORY_L1 • IPGCATEGORY_L2, • PRODUCTION_TYPE • EPGPRODUCTION_TYPE • CONTRIBUTION_TYPE • ORIGIN • TVCOUNTRIES • TVREGIONS
<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_gracenote_id">Movie</IPGCATEGORY_L1>
   <IPGCATEGORY_L1 ID="a_gracenote_id">TV Series</IPGCATEGORY_L1>
   <IPGCATEGORY_L1 ID="a_gracenote_id">Sports</IPGCATEGORY_L1>
   <IPGCATEGORY_L1 ID="a_gracenote_id">News / Info</IPGCATEGORY_L1>
   <IPGCATEGORY_L1 ID="a_gracenote_id">Entertainment</IPGCATEGORY_L1>
   <IPGCATEGORY_L1 ID="a_gracenote_id">Music</IPGCATEGORY_L1>
   <IPGCATEGORY_L1 ID="a_gracenote_id">Kids</IPGCATEGORY_L1>
   <IPGCATEGORY_L1 ID="a_gracenote_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_gracenote_id">Cast</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Actor</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Dancer</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Guest</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Host</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Narrator</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Puppeteer</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Voice-Of</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Appearance</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Body Double</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Cameo</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Commentator</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Extra</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Participant</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Playback Singer</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Stand-In</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Crew</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Cameraperson</CONTRIBUTION_TYPE>
   ...
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Sound Utility</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Stylist</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Supervising Dialog Editor</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Surround Mix</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Wardrobe</CONTRIBUTION_TYPE>
   <CONTRIBUTION_TYPE MEDIASPACE="VIDEO" ID="a_gracenote_id">Other</CONTRIBUTION_TYPE>
 </RESPONSE>
</RESPONSES>
```

Example Query using TVCOUNTRIES

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

Example Response using TVCOUNTRIES

```
<RESPONSES>
 <RESPONSE STATUS="OK">
   <COUNTRY>GBR</COUNTRY>
   <COUNTRY>DEU</COUNTRY>
   <COUNTRY>ITA</COUNTRY>
 </RESPONSE>
</RESPONSES>
```

Example Query using TVREGIONS

```
<QUERIES>
  <COUNTRY>GBR</COUNTRY>  <!-- required -->
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <QUERY CMD="FIELDVALUES">
      <FIELDNAME>TVREGIONS</FIELDNAME>
  </QUERY>
</QUERIES>
```

Example Response using TVREGIONS

```
<RESPONSES>
 <RESPONSE STATUS="OK">
   <TVREGION ID="12345">Border (England)</ TVREGION >
   <TVREGION ID="12346">Border (Scotland)</ TVREGION >
   <TVREGION ID="12347">Channel Islands</ TVREGION >
    …
  </RESPONSE>
</RESPONSES>
```

Retrieve Image URLs with URL_GET

You can use URL_GET to retrieve the URLs of images for a group of GN_IDs. To specify an image size. 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	Required. One per query: • 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 1.5.0. • CONTRIBUTOR_IMAGE: Returns all contributor images for the provided GN_IDs. • 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. • TVPROGRAM_IMAGE: Returns all TV program images for the provided GN_IDs. • SERIES_IMAGE: Returns all available Series images for the provided GN_ID.

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

Example Query for MODE=SERIES_IMAGE

```
<QUERIES>
  <AUTH>
    <CLIENT>client_id_string</CLIENT>
    <USER>user_id_string</USER>
  </AUTH>
  <QUERY CMD="URL_GET">
    <GN_ID>a_gracenote_id</GN_ID>
    <GN_ID>a_gracenote_id</GN_ID>
    <MODE>SERIES_IMAGE</MODE>
  </QUERY>
</QUERIES>
```

Example Response for MODE=SERIES_IMAGE

```
<RESPONSES>
 <RESPONSE STATUS="OK">
   <SERIES>
      <GN_ID>a_gracenote_id</GN_ID>
   <URL TYPE="IMAGE" SIZE="MEDIUM">a_temporary_url</URL>
   </SERIES>
   <SERIES>
      <GN_ID>a_gracenote_id</GN_ID>
   <URL TYPE="IMAGE" SIZE="MEDIUM">a_temporary_url</URL>
   </SERIES>
 </RESPONSE>
</RESPONSES>
```

Retrieving All AV_WORK Image Sizes

By default, URL_GET *returns the first image size it finds for an image*. To retrieve *all image sizes* for an AV_WORK, 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_gracenote_id</GN_ID>
    <GN_ID>a_gracenote_id</GN_ID>
    <OPTION>
      <PARAMETER>ALL_IMAGE_SIZES</PARAMETER>
      <VALUE>YES</VALUE>
    </OPTION>
    <OPTION>
      <PARAMETER>IMAGE_SIZE</PARAMETER>
      <VALUE>THUMBNAIL,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_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>
      <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>
```