



eyeQ Bundle Use Cases and Common Queries

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Common Use Cases

The following use cases show the steps a typical end user may perform when using an Gracenote eyeQ™ client application and the corresponding lower-level queries used to perform these steps.

Set Up for North American TV Providers

Step 1. User chooses a TV Provider in North America based on country and postal code (zipcode).

| | |
|----------------|--|
| Query | TVPROVIDER_LOOKUP |
| Mode | <i>none</i> |
| Input | Country and postal code (zipcode) as a text string |
| Options | <i>none</i> |
| Returns | List of available TV providers |

Step 2. User chooses a TV Provider and views TV channel lineup.

User chooses a TV Provider from list of providers from previous query. TV Device matches returned channel lineup to local channels.

| | |
|----------------|--|
| Query | TVCHANNEL_LOOKUP |
| Mode | TVPROVIDER |
| Input | TV Provider ID, Country, and postal code. |
| Options | If SELECT_EXTENDED=IMAGE, then channel logo URLs will be returned. If IMAGE_SIZE option is specified, the channel logo will be returned in the specified size if available. Possible sizes are 110 and 220. |
| Returns | Channel lineup from selected TV provider |

Set Up for European TV Providers

Step 1. User chooses a TV channel Using DVB Triplet and views TV channel lineup.

For Europe, the TV device scans channels and gathers DVB (Digital Video Broadcasting) triplets. The client matches the DVB triplets returned by TVCHANNEL_LOOKUP to local channels.

| | |
|----------------|--|
| Query | TVCHANNEL_LOOKUP |
| Mode | DVBIDS |
| Input | <p>DVBIDS structure representing the DVB triplet, including:</p> <ul style="list-style-type: none"> • <ONID>: Original network ID (the first number) • <TSID>: Transport stream ID (the second number) • <SID>: Service ID (the third number). |
| Options | <p>If SELECT_EXTENDED=IMAGE, then channel logo URLs will be returned.</p> <p>If IMAGE_SIZE option is specified, the channel logo will be returned in the specified size if available. Possible sizes are 110 and 220.</p> |
| Returns | <p>The response includes the channel lineup from selected TV provider based on DVBIDS. Also returns DVB triplets, including their types:</p> <p>T – for Terrestrial C – for Cable S – for Satellite or no type value.</p> <p>Example:</p> <pre><DVBIDS TYPE="T"> <ONID>70</ONID> <TSID>33</TSID> <SID>3313</SID> </DVBIDS></pre> |

What Is On Now: Retrieving Currently-Airing EPG Data

Step 1. Device sends TVGRID_LOOKUP query.

Gracenote returns dynamically-computed <TVGRID> object containing TVPROGRAMs and TVAIRINGs.

Step 2. Client application displays the grid.

Using the grid information, the client application displays the TV programs and airing times to the end user.

Search a TV Grid

Step 1: Client application sends TVGRID_SEARCH query containing a title or partial title of a TV program as text.

Gracenote returns the GN_ID and other metadata for the TV program.

Retrieving Full TV Program Metadata

Step 1: Client application sends TVPROGRAM_FETCH query using the TV program GN_ID.

The GN_ID is obtained from the EPG data returned by the TVGRID_LOOKUP, TVGRID_SEARCH, or other query. Gracenote returns the metadata for the TV program.

Explore a Single-Feature Video Disc

Step 1: User inserts a single-feature video disc into the player to view contents.

The disc is a movie disc with only one Feature of type: Main or Reserved. Inserting a disc initiates a video explore event.

| | |
|----------------|--|
| Query | VIDEODISCSET_TOC |
| Mode | SINGLE_BEST |
| Input | TOC, language, or XID |
| Options | SELECT_EXTENDED = COVERART, AV_WORK, AV_WORK_IMAGE, CONTRIBUTOR_IMAGE |
| Returns | One or zero VIDEODISCSET objects with cover art and AV_WORK data. For episode features, only the AV_WORKs ID is returned (along with the full feature data). |

Explore Multiple-Feature Video Disc

Step 1: User inserts a multiple-feature video disc into the player to view contents.

Disc has multiple episodes or movies Features of type Main, Episode, or Reserved. Inserting a disc initiates a video explore event.

| | |
|----------------|--|
| Query | VIDEODISCSET_TOC |
| Mode | <i>none</i> |
| Input | TOC |
| Options | SELECT_EXTENDED = COVERART |
| Returns | Zero, one or more VIDEODISCSET object partials with cover art. |

Step 2: User chooses one of the features from the video disc set.

| | |
|----------------|---|
| Query | VIDEODISCSET_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID from selected disc from the disc set. |
| Options | SELECT_EXTENDED = COVERART , AV_WORK, AV_WORK_IMAGE, CONTRIBUTOR_IMAGE |
| Returns | One or zero VIDEODISCSET objects with cover art and AV_WORK data. For episode features, only the AV_WORK's GN_ID will be returned (along with the full feature data). |

Step 3: User chooses to see full information about an Episode on a video disc set

Video disc set returned episode features, and the user wants to see full work and contributor data for the episode.

| | |
|----------------|---|
| Query | AV_WORK_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of the Episode |
| Options | SELECT_EXTENDED = IMAGE, CONTRIBUTOR_IMAGE |
| Returns | AV_WORK, with image and contributor images. |

Explore Contributor Information

Step1: User wants more information about a Contributor

The client application should display Contributor information obtained when the AV Work fetched. If the previous query did not get all of the the Contributors information, then the application should fetch the AV Work again and request full information.

Step 2: User wants to see the AV Works related to a Contributor

| | |
|----------------|---|
| Query | CONTRIBUTOR_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of selected Contributor |
| Options | SELECT_EXTENDED = IMAGE, FULL_MEDIAGRAPHY , MEDIAGRAPHY_IMAGES |
| Returns | CONTRIBUTOR, with AV_WORK and SERIES objects, as well as images for these |

Step 3: User choose to see information about a specific AV WORK of the Contributor

| | |
|----------------|--|
| Query | AV_WORK_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of the specific AV Work obtained from the prior Contributor fetch query. |
| Options | SELECT_EXTENDED = IMAGE, CONTRIBUTOR_IMAGE |
| Returns | AV_WORK, with image and contributor images. |

Step 4: User chooses to play the selected AV Work Trailer

| | |
|----------------|---|
| Query | AV_WORK_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of AV_WORK |
| Options | SELECT_EXTENDED = LINK |
| Returns | AV_WORK with XIDs. |
| Notes | Client application constructs trailer URL from IVA XID. |

Step 4: User chooses to purchase the selected AV WORK Product

| | |
|----------------|--|
| Query | AV_WORK_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of AV_WORK. |
| Options | SELECT_EXTENDED = VIDEODISCSET, VIDEODISCSET_COVERART , VIDEODISCSET_LINK |
| Returns | AV_WORK, with VIDEODISCSETs added into it, along with their cover art and their XID. |

Explore an AV Work Using Text Search

Step 1: User performs a text search for an AV Work

| | |
|----------------|-------------------------|
| Query | AV_WORK_SEARCH |
| Mode | <i>none</i> |
| Input | string |
| Options | SELECT_EXTENDED = IMAGE |

| | |
|----------------|---|
| Returns | Zero, one or more AV_WORKs, with images |
|----------------|---|

Step 2: User chooses AV WORK from multiple search results

| | |
|----------------|--|
| Query | AV_WORK_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of AV_WORK from prior text search. |
| Options | SELECT_EXTENDED = IMAGE, CONTRIBUTOR_IMAGE |
| Returns | One AV_WORK with image and contributor images. |

Alternative: User chooses AV WORK from Search Results Using Single Best option.

| | |
|----------------|---|
| Query | AV_WORK_SEARCH |
| Mode | SINGLE_BEST |
| Input | string |
| Options | SELECT_EXTENDED = IMAGE, CONTRIBUTOR_IMAGE |
| Returns | One AV_WORK with image and contributor images |

Explore Series Using Text Search

Step 1: User chooses a Series from search results.

| | |
|----------------|---------------------------------------|
| Query | SERIES_SEARCH |
| Mode | <i>none</i> |
| Input | string |
| Options | SELECT_EXTENDED = IMAGE |
| Returns | Zero, one or more SERIES, with images |

Step 2: User chooses Series Episode from multiple search results.

| | |
|----------------|--|
| Query | SERIES_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of Series |
| Options | SELECT_EXTENDED = IMAGE, CONTRIBUTOR_IMAGE |

| | |
|----------------|---|
| Returns | One SERIES with image and contributor images. |
|----------------|---|

Alternative: User chooses Series from search results Using Single-Best option.

| | |
|----------------|---|
| Query | SERIES_SEARCH |
| Mode | SINGLE_BEST |
| Input | string |
| Options | SELECT_EXTENDED = IMAGE, CONTRIBUTOR_IMAGE |
| Returns | One SERIES with image and contributor images. |

Explore Contributor Using Text Search

Step 1: User performs a text search for a Contributor

| | |
|----------------|---|
| Query | CONTRIBUTOR_SEARCH |
| Mode | <i>none</i> |
| Input | string |
| Options | SELECT_EXTENDED = IMAGE |
| Returns | Zero, one or more CONTRIBUTORS, with images |

Step 2: User chooses Contributor from multiple search results.

| | |
|----------------|--|
| Query | CONTRIBUTOR_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of Contributor |
| Options | SELECT_EXTENDED = IMAGE, FULL_MEDIAGRAPHY, MEDIAGRAPHY_IMAGES |
| Returns | One CONTRIBUTOR with image, full mediagraphy and mediagraphy images. |

Alternative: User chooses Contributor Using Single Best option.

| | |
|--------------|--------------------|
| Query | CONTRIBUTOR_SEARCH |
| Mode | SINGLE_BEST |
| Input | string |
| | |

| | |
|----------------|--|
| Options | SELECT_EXTENDED = IMAGE, FULL_MEDIAGRAPHY, MEDIAGRAPHY_IMAGES |
| Returns | One CONTRIBUTOR with image, full mediagraphy and mediagraphy images. |

Exploring Series and Seasons of a Contributor

By default, the Web API hides Series episode and season credits in a Contributor filmography. It only emits SERIES in the filmography, along with an episode count to indicate how many episode credits it found (and then hid) for this series.

Step 1: User wants to see only the Episodes in which a Contributor appeared.

| | |
|----------------|---|
| Query | CONTRIBUTOR_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of Contributor |
| Options | SELECT_EXTENDED=MEDIAGRAPHY_IMAGES, EXPAND_SERIES= <i>GN_ID</i> |
| Returns | One CONTRIBUTOR, with a modified mediagraphy that will contain only the series, season and episodes for the selected series. Every other credit is hidden. |

Step 2: User leaves limited Contributor Series view to see full Series list.

| | |
|----------------|--|
| Query | SERIES_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of Contributor |
| Options | SELECT_EXTENDED=IMAGE, CONTRIBUTOR_IMAGES |
| Returns | One SERIES, with image and contributor images. It will contain SEASONS, AV_WORKS, or both. |

Step 3: User chooses a Season of the Series.

| | |
|----------------|---------------------------------------|
| Query | SEASON_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of Season |
| Options | <i>none</i> |
| Returns | One SEASON. It will contain AV_WORKS. |

Step 4: User chooses an Episode of a Season.

| | |
|----------------|---|
| Query | AV_WORK_FETCH |
| Mode | <i>none</i> |
| Input | GN_ID of the specific AV Work obtained from the prior Season fetch query. |
| Options | SELECT_EXTENDED = IMAGE, CONTRIBUTOR_IMAGE |
| Returns | AV_WORK, with image and contributor images. |

Common Queries

The following information is a quick reference to common Gracenote eyeQ Bundle queries. For detailed information and examples, refer to the corresponding *API Reference* documentation for the query, and the *Gracenote eyeQ Implementation Guide* for best practices and other development recommendations.

Search for an AV Work Using a Title (Single Best)

| | |
|----------------|-----------------------|
| Query | AV_WORK_SEARCH |
| Mode | SINGLE_BEST |
| Options | SELECT_EXTENDED=IMAGE |
| Input | Title |
| Returns | AV Work |

Fetch a TV Program Using an AV Work

| | |
|----------------|---------------------------|
| Query | AV_WORK_FETCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED=TVPROGRAM |
| Input | AV Work |
| Returns | TV Program |

Fetch an AV Work Using an AV Work

| | |
|----------------|--|
| Query | AV_WORK_FETCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED=IMAGE, VIDEODISCSET, VIDEODISCSET_IMAGE, CONTRIBUTOR_IMAGE |
| Input | AV Work |
| Returns | AV Work |

Search for an AV Work Using a Title

| | |
|----------------|----------------|
| Query | AV_WORK_LOOKUP |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | Title |
| Returns | AV Work |

Search for a TV Program Using an AV Work (Single Best)

| | |
|----------------|---------------------------|
| Query | AV_WORK_SEARCH |
| Mode | SINGLE_BEST |
| Options | SELECT_EXTENDED=TVPROGRAM |
| Input | AV Work |
| Returns | TV Program |

Fetch a Contributor Using a Contributor

| | |
|----------------|---|
| Query | CONTRIBUTOR_FETCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED = IMAGE, FULL_MEDIAGRAPHY, MEDIAGRAPHY_IMAGES |
| Input | Contributor |
| Returns | Contributor |

Fetch Airing TV Appearances of Contributor Using a Contributor GN_ID

| | |
|----------------|------------------------------------|
| Query | CONTRIBUTOR_FETCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED = TVPROGRAM |
| Input | Contributor GN_ID |
| Returns | TV Program of Contributor (airing) |

Search for a Contributor Using a Name (Single Best)

| | |
|---------|-----------------------|
| Query | CONTRIBUTOR_SEARCH |
| Mode | SINGLE_BEST |
| Options | SELECT_EXTENDED=IMAGE |
| Input | Name |
| Returns | Contributor |

Search for a Contributor Using a Name

| | |
|---------|-----------------------|
| Query | CONTRIBUTOR_SEARCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED=IMAGE |
| Input | Name |
| Returns | Contributor |

Fetch Airing TV Appearances of Contributor Using a Contributor Name (Single Best)

| | |
|---------|--|
| Query | CONTRIBUTOR_SEARCH |
| Mode | SINGLE_BEST |
| Options | SELECT_EXTENDED=TVPROGRAM |
| Input | Contributor Name |
| Returns | TV Program of Contributor (airing single best) |

Fetch a Season Using a Season GN_ID

| | |
|---------|--------------|
| Query | SEASON_FETCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | Season GN_ID |
| Returns | Season |

Fetch a Season Using a TV Program

| | |
|--|--|
| | |
|--|--|

| | |
|----------------|--------------|
| Query | SEASON_FETCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | TV Program |
| Returns | Season |

Fetch a Series Using a Series GN_ID

| | |
|----------------|--|
| Query | SERIES_FETCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED=IMAGE, CONTRIBUTOR_IMAGE |
| Input | Series GN_ID |
| Returns | Series |

Fetch a Series Using a TV Program

| | |
|----------------|--------------|
| Query | SERIES_FETCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | TV Program |
| Returns | Series |

Search for a Series Using a Title

| | |
|----------------|-----------------------|
| Query | SERIES_SEARCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED=IMAGE |
| Input | Title |
| Returns | Series |

Search for a Series Using a Title (Single Best)

| | |
|----------------|-----------------------|
| Query | SERIES_SEARCH |
| Mode | SINGLE_BEST |
| Options | SELECT_EXTENDED=IMAGE |
| | |

| | |
|----------------|--------|
| Input | Title |
| Returns | Series |

Look Up a TV Channel Lineup Using a DVB Triplet (Europe)

| | |
|----------------|---|
| Query | TVCHANNEL_LOOKUP |
| Mode | DVBIDS |
| Options | <i>None</i> |
| Input | DVBIDS structure representing the DVB triplet, including: |

- <ONID>: Original network ID (the first number)
- <TSID>: Transport stream ID (the second number)
- <SID>: Service ID (the third number). |

| | |
|----------------|---|
| Returns | Channel lineup from selected TV provider based on DVBIDS. |
|----------------|---|

Look Up a TV Channel North America Using a TV Provider

| | |
|----------------|--------------------------|
| Query | TVCHANNEL_LOOKUP |
| Mode | TVPROVIDER |
| Options | <i>None</i> |
| Input | TV Provider |
| Returns | TV Channel North America |

Fetch a TV Program (All Metadata) Using a GN_ID

| | |
|----------------|---------------------------|
| Query | TVPROGRAM_FETCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | GN_ID |
| Returns | TV Program (All Metadata) |

Fetch a Contributor(s) GN_ID(s) Using a TV Program

| | |
|----------------|-----------------|
| Query | TVPROGRAM_FETCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| | |

| | |
|----------------|-------------------------|
| Input | TV Program |
| Returns | Contributor(s) GN_ID(s) |

Search for an Airing AV Work Using its GN_ID

| | |
|----------------|---|
| Query | TVGRID_LOOKUP |
| Mode | AV_WORK |
| Options | <i>None</i> |
| Input | TVCHANNEL GN_ID(s) and the GN_ID of the AV Work |
| Returns | AV Work |

Look Up Airing TV Appearances of Contributor

| | |
|----------------|---|
| Query | TVGRID_LOOKUP |
| Mode | CONTRIBUTOR |
| Options | <i>None</i> |
| Input | TVCHANNEL GN_ID(s) and GN_ID of Contributor |
| Returns | Airing TV Appearances of Contributor |

Search for an Airing TV Program Using a Title

| | |
|----------------|-------------------------|
| Query | TVGRID_SEARCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | Title of the TV program |
| Returns | TV Program |

Look Up Providers Using a Country and Postal Code (North America)

| | |
|----------------|----------------------------------|
| Query | TVPROVIDER_LOOKUP |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | COUNTRY and POSTALCODE required. |
| Returns | Providers (North America) |

Fetch a Video Disc Set Using a Video Disc Set GN_ID

| | |
|----------------|---|
| Query | VIDEODISCSET_FETCH |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED=COVERART, AV_WORK, AV_WORK_IMAGE, CONTRIBUTOR_IMAGE |
| Input | Video Disc Set |
| Returns | Video Disk Set |

Search for an AV Work Using a Video Disc Title

| | |
|----------------|--------------------|
| Query | VIDEODISCSET_FETCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | Video Disc Title |
| Returns | AV Work |

Search for a Video Disc Set GN_ID Using a Title

| | |
|----------------|----------------------|
| Query | VIDEODISCSET_SEARCH |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | Title |
| Returns | Video Disc Set GN_ID |

Look Up a Video Disc Set Using a TOC and XID

| | |
|----------------|--|
| Query | VIDEODISCSET_TOC |
| Mode | <i>None</i> |
| Options | SELECT_EXTENDED=COVERART |
| Input | TOC and XID |
| Returns | Look Up a Video Disc Set using a TOC and XID |

Look Up a Video Disc Set a Using a TOC, XID, or both (Single Best)

| | |
|----------------|-------------------|
| Query | VIDEODISCSET_TOC |
| Mode | SINGLE_BEST |
| Options | <i>None</i> |
| Input | TOC, XID, or both |
| Returns | Video Disk Set |

Search for an AV Work Using a Video Disc TOC

| | |
|----------------|------------------|
| Query | VIDEODISCSET_TOC |
| Mode | <i>None</i> |
| Options | <i>None</i> |
| Input | Video Disc TOC |
| Returns | AV Work |