



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.
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	If SELECT_EXTENDED=IMAGE, then channel logo URLs will be returned.
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
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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.
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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=GN_ID
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

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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.
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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