



Entourage SDK Release Notes for iOS

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About the Entourage™ SDK Release Package

The Automatic Content Recognition (ACR) SDK is the Software Development Kit for Gracenote's Entourage Platform. This release is distributed as a compressed archive file, *.zip, containing the following:

- iOS Code and Reference Application
 - Entourage SDK iOS Framework
 - XCode project for iOS Reference Application
- iOS Developer Documentation
 - Entourage SDK Release Notes for iOS (this document)
 - Entourage ACR FAQ (PDF)
 - Entourage SDK Data Dictionary (PDF)
 - Entourage SDK Data Dictionary (HTML)
 - Entourage SDK Getting Started Guide for iOS (PDF)
 - Entourage SDK Implementation Guide for iOS (PDF)
 - Entourage (ACR) iOS API Reference (HTML)

System Requirements

iOS 4.3.5+ device with network/Internet connectivity and a microphone or other means of gathering PCM (Pulse Code Modulation) audio data for submission.

Gracenote-provided Client ID, Client ID Tag, and License File

Please contact Gracenote Services & Support for your Client ID and Tag, and License File. *All are **required** when initializing an Entourage application.*

If your application is implementing the MusicID module, you will need an additional, separate Client ID and Tag.

Recommendations

- For the best automatic detection of channel changes and other "transitions", it is suggested that you use a 44.1 kHz audio input sampling rate, which is more effective at detecting transitions than a lower sampling rate. The iOS ACR Sample App uses a 44.1 kHz sampling rate.
- Consult with Gracenote Services & Support for an up-to-date list of supported TV channels.
- Entourage is designed to work with actual TV broadcasts. Systems such as Slingbox® or Internet streaming sites may work, but are NOT recommended as recognition varies significantly depending on location and other factors.

New Features

- Added support for iOS 7
- SDK is certified for 32- and 64-bit

Current Release Limitations

- Responses returned during commercials may include multiple matches and not always include the specific channel the user is watching. Entourage is a *content identification* system (vs. a channel identification system) and, as such, returns TV shows and associated channels. See *Considerations* for details.
- Entourage is optimized to detect channel changes. If an advertisement is being broadcast during a program, the associated TV show (and not the ad) is returned.
- If an Entourage app is running and a phone call is received, iOS disables microphone access and Entourage loses the ability to capture audio. If this happens, your app needs to re-initialize the Entourage SDK. Based on your app's use-cases, Gracenote Services & Support can advise you on the best way to address this and other iOS behavior.
- Depending on a number of factors, the position within a TV show typically ranges from 3-30 seconds. For applications synchronizing with a live TV broadcast, use the response's `adjustedPosition` offset value. See the *Entourage SDK Data Dictionary* for more information on this field.
- The Entourage SDK supports Apple iOS and Android OS' devices.
- When running the Sample Application, if you are using an iOS version prior to iOS 6, you may see an error message in the log file similar to this when you click 'Stop ACR':
'2012-11-20 12:50:01.069 GN_ACR_SDK[2250:4307] 12:50:01.069 <0x2ff5e000>
AURemoteIO::ChangeHardwareFormats: error -10875'
This error does not impact your ability to continue running and using the Sample App.

Considerations

Matching

- The current platform is designed to return as many matches as possible, which allows Gracenote to fine-tune the client SDK/network. Future releases will use this tuning to limit the number of matches returned. When there are multiple matches, your app can compare the matches returned with previous query matches - if a match is found, the user is still watching the same show/channel and your app does not need to update the screen.
- In certain situations, e.g., a high level of background speech, Entourage may not return a match. Typically, a match is returned a short time later, without end-user intervention.

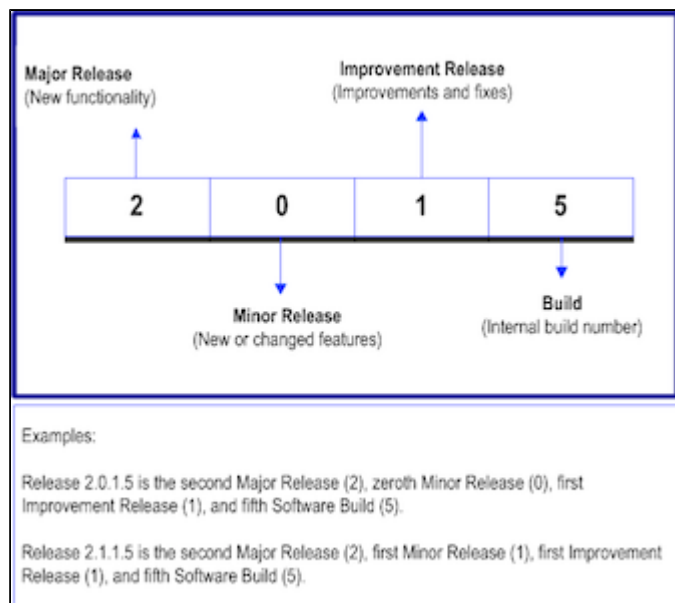
- Low audio volume or high background noise could impede recognition. Subsequent releases will improve matching in less than ideal environments. Entourage typically needs 5-8 dB SPL (Sound Pressure Level) above ambient to consistently return a match.

Battery and Network

- The Entourage SDK has configurable settings for conserving battery life and minimizing network access. Key options include: how many "no matches" before Entourage ignores transitions, how often to query even if a transition has not been detected, and including a manual lookup option. See the *Configurable ACR Object Properties* section in the *Entourage SDK Implementation Guide for iOS* for more information.
- Depending on your app's needs, there are additional options for conserving battery life and minimizing network access. However, you should consult with Gracenote Services & Support to find out what these options are and the implications for your specific application.

Release Number Conventions

Entourage is distributed as a .zip file with the release (version) number in the file name. For example, gn-acr-sdk-ios-1.1.0.1.zip. The release number is updated for each release build and follows the conventions below:



Sunset Notice

Upon each new release of the ACR SDK, Gracenote supports two of the most recent* iOS operating system versions on that respective release. Since ACR 1.5 supports iOS 7.0.2, we are announcing a sunset of support for the following iOS versions, effective December 31, 2014:

- iOS 5.1.1 and earlier

For the next 12 months, we will continue to support critical issues related to the affected OS versions, typically fixing them in the latest version of the ACR SDK. After one year, support for them will be discontinued altogether. Please note that this does not mean that the ACR SDK will no longer function on these versions.

If your product will require migrating to a newer version of the SDK, or if you have any questions regarding this policy, please contact your Gracernote Global Services and Support Engagement Manager.

* Most recent is defined as the OS having been commercially available on a shipping product for at least 8 weeks prior that particular release of the ACR SDK. Note that newly introduced versions of iOS will only be certified on upcoming releases; earlier versions of the ACR SDK will not go through a recertification process.

Confidentiality Notice

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