

Android Library Release Notes

As of version 5 the comScore libraries use a new public API.

Upgrading existing implementations of versions 2 and 3 of the comScore library will require a small amount of code changes.

These code changes are explained in an appendix of the implementation guides.

Library Version 5.7.0.180306

Release Date: March 19, 2018

Application Tag Data Collection Model Version: 2.19

Streaming Tag Data Collection Model Version: 5.10

Supported OS Versions: 2.3 - 8.0 (Android API levels 9 - 26)

Feature changes:

1. [TAGLCPPS-59, TAGLANDR-85] Remove `uncaughtExceptionTracking` configuration setting to reflect removal of this functionality from the library.

Bug fixes:

1. [TAGLCPPS-102] Ensure label values with unicode characters are URL encoded in XML files for offline cache flushes.
2. [TAGLCPPS-114, TAGLANDR-160] Ensure `setDVRWindowLength` and `setDVRWindowOffset` API methods correctly process their argument values.
3. [TAGLANDR-146] Transmit relevant information when library execution crashes internally and the library is deactivated.
4. [TAGLANDR-150] Ensure the library does not output logging by default.

Known issues and limitations:

- There were no known issues for this release.

Library Version 5.6.0.171205

Release Date: January 8, 2018

Application Tag Data Collection Model Version: 2.18

Streaming Tag Data Collection Model Version: 5.10

Supported OS Versions: 2.3 - 8.0 (Android API levels 9 - 26)

Feature changes:

1. [TAGLANDR-77] Capture the application install source/store in label `ns_ap_a.is`.

Bug fixes:

1. [TAGLCPPS-92] Ensure playback sequence counters are incremented when playback resumes from pause-on-buffering.
2. [TAGLANDR-132, TAGLANDR-134] Prevent crashes when the application cannot load the native library.
3. [TAGLANDR-133] Prevent JNI errors caused by keeping Java references.

Known issues and limitations:

- There were no known issues for this release.

Library Version 5.5.1.170927

Release Date: October 6, 2017

Application Tag Data Collection Model Version: 2.17

Streaming Tag Data Collection Model Version: 5.9

Supported OS Versions: 2.3 - 8.0 (Android API levels 9 - 26)

Feature changes:

1. [TAGLANDR-87] Collect the application state that is detected when the library starts.
2. [TAGLANDR-88] Collect the origin of the library in label `ns_ap_env`.
3. [TAGLANDR-108] Improve storage access to persist collected data.
4. [TAGLANDR-118] Collect background usage time when the library cannot determine if the application is in the foreground.
5. [TAGLANDR-119, TAGLANDR-121] Prevent the library from determining if the application is in the foreground on Android 4.

Bug fixes:

1. [TAGLANDR-60, TAGLANDR-72, TAGLANDR-96, TAGLANDR-97] Ensure the collected cross-publisher unique ID value changes correctly after Google Play Services is disabled by the user.
2. [TAGLANDR-70] Ensure the deprecated `UncaughtExceptionHandler` does not cause other crash handling libraries to be suppressed.
3. [TAGLANDR-81] Remove obsolete `autoStartEventLabels` from `PublisherConfiguration` and `PartnerConfiguration`.
4. [TAGLANDR-91] Ensure the API methods introduced with [TAGLCPPS-25] are available on the public API.
5. [TAGLANDR-111] Ensure public API consistency with other libraries.
6. [TAGLCPPS-28, TAGLCPPS-34] Improve internal handling of state transitions and extra notification methods.

Known issues and limitations:

- There were no known issues for this release.

Library Version 5.3.4.170714

Release Date: July 24, 2017

Application Tag Data Collection Model Version: 2.14

Streaming Tag Data Collection Model Version: 5.9

Supported OS Versions: 2.3 - 7.1 (Android API levels 9 - 25)

Feature changes:

1. [TAGLCPPS-25] Improve support for DVR streams.
2. [TAGLCPPS-26] Improve Streaming Tag elapsed time calculation.
3. [TAGLANDR-58, TAGLANDR-62] Improve support for dynamically disabling the vCE component.
4. [TAGLANDR-74] Improve the logic for generating the cross-publisher unique device ID.

Bug fixes:

1. [TAGLCPPS-28, TAGLCPPS-34] Improve internal handling of state transitions and extra notification methods.
2. [TAGLANDR-50] Ensure the vCE component only uses weak references to the WebViews it interacts with.
3. [TAGLANDR-63] Ensure the `clearInternalData` and `clearOfflineCache` methods are executed correctly when they are called immediately after starting the library.
4. [TAGLANDR-64] Ensure the values the vCE component collects for view name are comparable to the values collected for iOS.
5. [TAGLANDR-65] Ensure the listener for library configuration changes - e.g., from calls to the `setPersistentLabel` method - is called from the task executor thread rather than from the thread that made the configuration change to prevent that thread from being temporarily locked.

Known issues and limitations:

- There were no known issues for this release.

Library Version 5.3.1.170519

Release Date: May 24, 2017

Application Tag Data Collection Model Version: 2.14

Streaming Tag Data Collection Model Version: 5.8

Supported OS Versions: 2.3 - 7.1 (Android API levels 9 - 25)

Feature changes:

1. [TAGLANDR-48] Improve viewability and meta information processing in the vCE component.
2. [TAGLANDR-52] Treat 301 and 302 HTTP response codes as successful transmission when `httpRedirectCaching` is turned off in the library configuration.
3. [TAGQA-1178] Add support for Common Visibility Measurement (CVM) to the vCE component.

Bug fixes:

1. [TAGLANDR-33] Ensure the vCE component uses does not account for status bar height when the application is in fullscreen or immersive mode.
2. [TAGLANDR-34, TAGLANDR-46] Ensure the vCE component correctly parses pixel URLs.
3. [TAGLANDR-41] Ensure the vCE component is not affected by the loss of reference to the current activity as fragments are garbage collected.

4. [TAGLANDR-47] Prevent exceptions from occurring when the vCE component inspects the view scale of a popup.
5. [TAGLCPPS-23] Ensure negative playback rate values are accepted by the `setPlaybackRate` method of the `StreamingAnalytics` class.
6. [TAGLCPPS-36] Prevent a crash from the system clock jump detection functionality when an implementation destroys its `StreamingAnalytics` object.
7. [TAGQA-1148] Ensure the vCE component calculates screen dimensions and device resolution values with the same logic as the Application Tag component.
8. [TAGQA-1150] Improve compatibility with the OutBrain SDK.
9. [TAGQA-1159] Ensure the cross-publisher unique device ID values are encoded correctly in HTTP requests from the vCE component.
10. [TAGQA-1166] Ensure the vCE component detects the current activity even when using lazy loading.
11. [TAGQA-1168] Prevent crashes when the vCE component access the view of a parent window.

Known issues and limitations:

- There were no known issues for this release.

Library Version 5.2.0.170406

Release Date: April 12, 2017

Application Tag Data Collection Model Version: 2.13

Streaming Tag Data Collection Model Version: 5.8

Supported OS Versions: 2.3 - 7.1 (Android API levels 9 - 25)

Feature changes:

1. [TAGLANDR-17] Add API method for implementing Activation.
2. [TAGLANDR-18] Add collection of library environment properties.
3. [TAGLANDR-19] Modify processing of provided `PublisherConfiguration` to immediately generate the publisher-specific unique device ID.
4. [TAGLANDR-30] Allow processing of API notification methods calls prior to configuring and starting the library to improve data collection.

Bug fixes:

1. [TAGLANDR-21] Ensure cross-publisher unique device ID is (re)generated each time its value is retrieved.
2. [TAGLANDR-27, TAGLANDR-28] Ensure the `keepAliveMeasurement`, `labelOrder` and `uncaughtExceptionTracking` configuration settings on the `PublisherConfiguration` are correctly evaluated.

Known issues and limitations:

- There were no known issues for this release.

Library Version 5.1.0.170220

Release Date: February 24, 2017

Application Tag Data Collection Model Version: 2.11

Streaming Tag Data Collection Model Version: 5.8

Supported OS Versions: 2.3 - 7.1 (Android API levels 9 - 25)

Feature changes:

1. [TAGLANDR-11] Add API methods for clearing all stored data and clearing the offline cache without flushing it to support advanced implementation scenarios.
2. [TAG-2937] Improve collection of automatically calculated Streaming Tag positions and unique playing time for players which support changing the playback rate. The library will now account for playback speed using the values provided for playback rate change notification method calls (if these calls appear in the implementation).
*Please note that playback rates can be *negative* to indicate reverse playback. The library uses the playback rate to calculate the current position in between playback state change notifications. Depending on the player's exact reverse playback capabilities, the playback scenario and execution timings, reverse playback past position 0 could cause the calculated position be a negative value.*
3. [TAG-2938] Implement system clock jump detection to mitigate the effect of clock jumps on Streaming Tag collected positions, playing time and unique playback.
4. [TAG-2947] Add an API method to disable internal updates of the Streaming Tag current position and position-related metrics based on the progress of natural time.

Bug fixes:

1. [TAGCPPS-6] Prevent seeking while a stream is paused from being counted as playback in Streaming Tag measurement requests.
2. [TAGLANDR-4] Improve the solution implemented for version 5.0.6.161223.
3. [TAG-2985] Ensure Streaming Tag asset load counter is reset when a new [Asset](#) is provided to the [StreamingAnalytics](#) API.

Known issues and limitations:

- There were no known issues for this release.

Releases from 2016 and earlier have been removed from the release notes.