JavaScript Library Release Notes

> *Version 7.0.0 of the Comscore library introduces public API changes.* Upgrading existing implementations of older library versions will require a small amount of code changes, which are explained in an appendix of the implementation guides.

Library Version 7.11.1+2410250530

Release Date: October 29, 2024

Data Collection Model Version: 6.7

Supported Platforms in PlatformAPI: Web browser, non-web browser vanilla HTML5/JavaScript, Sony Trilithium and JSMAF (Playstation 3 and 4, Vita, SmartTV and Blu-ray), Samsung Tizen TV, Samsung legacy SmartTV and Blu-ray, LG SmartTV and Blu-ray (Netcast and WebOS), Philips Smart TV, Google Chromecast Custom Receiver, AppleTV, Xbox One (WinJS), WebOS, Node.js

Feature changes:

- There were no feature changes for this release.

Bug fixes:

1. (TAG-9120) Ensure tags are notified to continue execution when unsupported GPP sections are applicable and consent consumption is delayed.
   Description: There are scenarios where communication with a GPP CMP results in delayed consent data consumption for unsupported sections, preventing tag transmission because the tag is waiting for resolution and is not notified due to the sections being unsupported.
   Resolution: Ensure notifications to the tag are always triggered, even if GPP sections are unsupported.

Known issues and limitations:

- There were no known issues for this release.

Library Version 7.11.0+2410170858

Release Date: October 18, 2024

Data Collection Model Version: 6.7

Supported Platforms in PlatformAPI: Web browser, non-web browser vanilla HTML5/JavaScript, Sony Trilithium and JSMAF (Playstation 3 and 4, Vita, SmartTV and Blu-ray), Samsung Tizen TV, Samsung legacy SmartTV and Blu-ray, LG SmartTV and Blu-ray (Netcast and WebOS), Philips Smart TV, Google Chromecast Custom Receiver, AppleTV, Xbox One (WinJS), WebOS, Node.js

Feature changes:

1. (TAG-9036) Add a configuration option for disabling automatic collection of web page details in web browser use cases.
   Description: There are cases where web page details (URL, title and referrer) contain elements which should not be included in tagging data collection. The library should provide a mechanism to prevent automatic collection of web page details in those cases.

Resolution: Add configuration options which allow an implementation to individually disable automatic collection of URL, title and referrer values.

2. (TAG-9065) Collect Global Privacy Control value.

   Description: Some jurisdictions have indicated the Global Privacy Control configuration setting in a web browser must be accepted as a user's consent signal.

   Resolution: Collect the Global Privacy Control value from the corresponding web browser DOM property.

Bug fixes:

- There were no bug fixes for this release.

Known issues and limitations:

- There were no known issues for this release.

Library Version 7.10.0+2407311226

Release Date: August 7, 2024

Data Collection Model Version: 6.7

Supported Platforms in PlatformAPI: Web browser, non-web browser vanilla HTML5/JavaScript, Sony Trilithium and JSMAF (Playstation 3 and 4, Vita, SmartTV and Blu-ray), Samsung Tizen TV, Samsung legacy SmartTV and Blu-ray, LG SmartTV and Blu-ray (Netcast and WebOS), Philips Smart TV, Google Chromecast Custom Receiver, AppleTV, Xbox One (WinJS), WebOS, Node.js

Feature changes:

1. (TAG-8800, TAG-8854, TAG-8879 and TAG-8884) Improve CMP integrations.

   Description: There are a number of improvements to the CMP integration identified from recent observations;

   - Collect US Privacy string from GPP CMPs.
   - Improve the collected value in `gpp_sid` to allow better troubleshooting from collected data.
   - Improve use of `addEventListener` command response from TCF CMPs.
   - Improved use of `listenerRegistered` event from GPP CMPs.

   Resolution: Apply the identified improvements.

2. (TAG-8969) Ensure TCF user consent signals are used when both TCF and GPP CMP APIs are present for GDPR use cases.

   Description: When both TCF and GPP CMP APIs are present, the GPP user consent signals are given precedence. It has been observed for GDPR use cases that GPP user consent signals for section 2 (`tcfeuv2`) are often confusing, conflicting or even incorrect while the TCF user consent signals are correct. This is believed to be caused by the difference in maturity of the two frameworks.

   Resolution: Give TCF user consent signals higher precedence when both TCF and GPP CMP APIs are present for GDPR use cases.

Bug fixes:

1. (TAG-8945) Ensure Chrome can set the first-party cookie within iFrames.

   Description: The JavaScript code that sets the `_scor_uid` first party cookie does not include the `SameSite=None` and `Secure` attributes, preventing Chrome from being able to set the cookie within iFrames.

   Resolution: Add `SameSite=None` and `Secure` attributes to the JavaScript code that sets the first-party cookie.

Known issues and limitations:

- There were no known issues for this release.

Library Version 7.9.0+2406050415

Release Date: June 6, 2024

Data Collection Model Version: 6.7

Supported Platforms in PlatformAPI: Web browser, non-web browser vanilla HTML5/JavaScript, Sony Trilithium and JSMAF (Playstation 3 and 4, Vita, SmartTV and Blu-ray), Samsung Tizen TV, Samsung legacy SmartTV and Blu-ray, LG SmartTV and Blu-ray (Netcast and WebOS), Philips Smart TV, Google Chromecast Custom Receiver, AppleTV, Xbox One (WinJS), WebOS, Node.js

Feature changes:

1. (TAG-8642) Add a configuration setting to bypass user consent requirement for first-party cookie functionality.

   Description: The first-party cookie will not be set without user consent from either CMP or presence of `cs_ucfr=1`. In use cases where a consumer is in a jurisdiction that does not restrict the use of cookies neither of those might be available, therefore preventing the first-party to be set.

   Resolution: Offer a configuration setting that will allow a publisher to bypass the user consent requirement in uses cases where the use of cookies is not restricted.
2. (TAG-8712) Deprecate `disableTcfIntegration` in favour of `disableCmpIntegration`.

   Description: With the introduction of GPP CMP integration `disableTcfIntegration` has become a misnomer as the configuration setting controls both the TCF and GPP CMP integrations.

   Resolution: Introduce the `disableCmpIntegration` configuration setting and deprecate `disableTcfIntegration`.
3. (TAG-8790) Add Streaming Analytics DVR Content Delivery Mode.

   Description: DVR content is considered different from traditional linear and on-demand video. The streaming tag should allow this to be specified as content delivery mode.

   Resolution: Add the DVR content delivery mode value.

Bug fixes:

1. (TAG-8602) Ensure automatically generated playback position values are retained when system clock jumps are detected during (long) pauses.

   Description: System clock jump detection sometimes detects jumps that can be considered to be expected because the system has less resources to spend or halts execution. While these in themselves are not detrimental to data collection, their handling causes a side effect if the detection happens during (long) pauses. In that scenario the current playback position is not stored. This in turn causes the playback position to be incorrect once playback resumes.

   Resolution: Ensure current playback positions are stored when system clock jump detection intervenes during a (long) pause.
2. (TAG-8637) Ensure `enableFirstPartyCookie()` calls before `start()` method without explicit PlatformApi selection are not ignored.

   Description: Implementation guide documents the WebBrowser PlatformAPI to be the default, meaning it is not necessary to explicitly set the PlatformAPI. The guide also instructs to supply configuration settings before starting the library. However, if the `enableFirstPartyCookie()` configuration method is called prior to starting the library and without PlatformAPI selection then the first party cookie functionality is not enabled.

   Resolution: Ensure the library enables first party cookie functionality even if the `enableFirstPartyCookie()` configuration call is made without PlatformAPI selection.

Known issues and limitations:

- There were no known issues for this release.

Library Version 7.8.0+2310050509

Release Date: October 9, 2023

Data Collection Model Version: 6.6

Supported Platforms in PlatformAPI: Web browser, non-web browser vanilla HTML5/JavaScript, Sony Trilithium and JSMAF (Playstation 3 and 4, Vita, SmartTV and Blu-ray), Samsung Tizen TV, Samsung legacy SmartTV and Blu-ray, LG SmartTV and Blu-ray (Netcast and WebOS), Philips Smart TV, Google Chromecast Custom Receiver, AppleTV, Xbox One (WinJS), WebOS, Node.js

Feature changes:

1. (TAG-7908) Introduce support for Samsung Tizen TV.

   Description: Tag implementation for Samsung Tizen TV applications has thus far been supported via customised Skeleton PlatformAPI implementations. Multiple publishers have been reported to use this. This solution can be improved by adding a standard PlatformAPI for Samsung Tizen TV.

   Resolution: Add a standard PlatformAPI that uses Samsung Tizen TV APIs for reporting device and platform data. Implementation documentation will be updated shortly to explain application project requirements to use this solution.
2. (TAG-7971) Update TCF CMP integration and introduce GPP CMP integration.

   Description: The CMP integration in the library supports only TCF 2.0 CMPs. TCF 2.2 comes with a change in requirements that removes CMP API elements used in the current integration. Also, GPP CMPs are showing up as replacement to TCF CMPs and need to be supported. GPP is currently at version 1.1.

   Resolution: Update the TCF CMP integration to TCF 2.2-compliant. Add a GPP 1.1-compliant integration.
3. (TAG-8460) Add first-party cookie functionality to the library.

   Description: The web page impression tag can set and collect first-party cookies. As this library can be used in web browser use cases, this functionality should be available for optimal data collection of these first-party cookies.

   Resolution: Implement first-party cookie functionality following the specification used for web page impression tag.

Bug fixes:

1. (TAG-8495) Ensure the `getPlaybackSessionId()` method of `StreamingAnalytics` instances returns a value.

   Description: The `getPlaybackSessionId()` method of `StreamingAnalytics` instances returns `undefined` values.

   Resolution: Ensure the `getPlaybackSessionId()` method returns the identifier of the current playback session.

Known issues and limitations:

- There were no known issues for this release.