Adobe® Primetime
PSDK 1.2 for Desktop HLS Release Notes

Contents

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New features for 1.2

- **Video Analytics integration**

  Video Analytics is Adobe's video-tracking solution, which is available to you through the Primetime SDK.

  The Adobe Video Analytics feature encompasses two aspects of video tracking:

  - *Primetime Player Monitoring* - This is provided with the PSDK. It provides real-time metrics about the quality of streaming, including the buffer rate, error rate, average bit rate, active streams, and startup time.

  - Adobe Analytics Video Essentials - This is an add-on service. It provides video engagement metrics after the fact (non real-time), including video views, video completes, ad impressions, time spent on video, and more. For more information, contact your Adobe representative.

- **On-the-fly transcoding or creative repackaging**

  Some third-party ads (creatives) might be available only as a progressive download MP4 video, in which case they cannot be stitched into the HLS content stream. Primetime Ad Insertion and the Desktop HLS PSDK provide an option called third-party creative repackaging, which addresses this situation.

  On the fly ad transcoding is supported through Adobe Ad Serving. The Adobe Ad Server account must be configured for creative repackaging on the Ad Server and then repackaging is seamlessly handled through the PSDK.

- **Clickable ads**

  When a user clicks on an ad or related button, the PSDK provides information to enable your application to take appropriate action, such as redirecting to the click-through URL.

- **Support for 708 and WebVTT captions**

  These closed-caption types are automatically supported with no changes required in your application.

- **Support for DVR replay with ad insertion**

  This includes the addition of a new player state, INITIALIZED, and some changed behavior related to that state.

- **302 redirect optimization**

  When a request is redirected due to load balancing, the PSDK continues to use the redirected domain for future requests.

- **New events**

  - *MediaPlayerItemEvent.CAPTION_UPDATED*

  - *OpportunityHandledEvent.OPERATION_FAILED*

  - *OpportunityHandledEvent.OPERATION_SUCCESSFUL*

  - *TimedMetadataEvent.TIMED_METADATA_ID3_ADDED*
  - *TimedMetadataEvent.TIMED_METADATA_SKIPPED*

- **ID3 support**

  You can now extract information from the audio and video stream nested in ID3 tags.

• **Support for Full Event Replay (FER) streams**

FER streams are VoD streams with ad cues embedded in the stream manifest. For such streams, the video player may choose the mechanism for specifying the location of ads in the main stream:

 • Server Ad Map: the Ad Server decides the location of the ads. In this case, use the INSERT ad operation.
 • Manifest Cues: the cues in the manifest specifies the location of the ads. In this case, use the REPLACE ad operation.

• **Start-up enhancements for VoD/FER and LIVE/DVR** that will make the playback startup independent from the number of ad cues that need to be solved for a VoD/FER/DVR stream.

PSDK changes for 1.2

Element	Description
MediaPlayer	The only supported implementation is the DefaultMediaPlayer class, which is final and is owned by PSDK. Custom implementations are not allowed.
new parameter	`function prepareToPlay(... args):void;` New optional position parameter. Both in VoD and DVR, the playback might not start at the beginning of the playback window. As the start position affects the placement of the pre-roll ads and the ad resolving process, the position parameter allows you to specify the initial position of the playback. prepareToPlay() is still supported.
seek behavior	`function seek(position:Number):void;` No longer ignores invalid seek positions. Now adjusts the provided position to a location inside the seekable range. Otherwise, seeking too close to the live point or to the beginning of a rolling window could result in playback stalls or even unrecoverable playback errors.
replaceCurrentItem replaced with replaceCurrentResource	Use replaceCurrentResource instead of replaceCurrentItem, which still works correctly in this release but is deprecated.
TimeRange behavior	Although for VoD streams any location in the stream is "seekable", this is not true for Live/Linear. The returned range is now inside the range returned by getPlaybackRange(). `function get seekableRange():TimeRange;`
com.adobe.mediacore classes made private: • AdHandler • ContentCache • ContentLoader • DefaultAdBreakPolicySelector • PlayerOperation • PlayOperation • SeekOperation	No longer public. These were exposed only in development drops provided between 1.1 and 1.2.

Element	Description
MediaPlayerState new state INITIALIZING	A new state, INITIALIZING, comes between IDLE and INITIALIZED. The sequence is now IDLE - INITIALIZING - INITIALIZED - PREPARING - PREPARED - PLAYING
Version property apiVersion	New integer property apiVersion on the static Version class. `public static int getApiVersion()`

Known issues in 1.2

Bug #	Description and Workaround
3658618	Video returns to near the start point when fast forward is triggered after the video has ended. After it seeks to near the start point, the video fast forwards. **Workaround:** None, except to code around this for now.
3658625	Play state becomes kPSEOF when a video is rewound until the beginning. **Workaround:** After rewinding to the beginning of a video, the user needs to click Play again.
3665296	In Live and DVR playback, the playback stops, displays a white screen, and cannot be restarted. This happens ranging from a couple of minutes into the stream to over one hour into the stream and seems to be associated with bitrate switch events. **Workaround:** None.
3669838	When the Desktop player is loaded using Internet Explorer 8 or Internet Explorer 10 in Windows 7 and Windows XP, the display is very small. When using Compact View in Internet Explorer 10, the player is as expected. **Workaround:** None.
3670033	When the player is loaded in a Chrome browser on Windows XP, the user is unable to select a video. **Workaround:** None.
3674550	Opacity for font, background, and fill in closed captions do not respond to settings. **Workaround:** None.
3676558	On Internet Explorer 11, if a user performs a seek to an unresolved mid-roll ad while playing a mid-roll ad in live + DVR content, the ad cue does not resolve and the browser freezes. **Workaround:** None.
3686212	Empty buffer count keeps incrementing whenever video is paused and resumed, even when the buffer is full. **Workaround:** None.
VA-724	During buffering periods, no tracking calls are issued.

Bug #	Description and Workaround
VA-740	VideoHeartbeat library automatically sends a COMPLETE event when a new video asset is open.
VA-779	The bit-rate change event heartbeat is not sent.
VA-785	Total duration is not reset when the same ad replays.