

Adobe® Primetime Video heartbeat 1.3.1 for ActionScript SDK Guide

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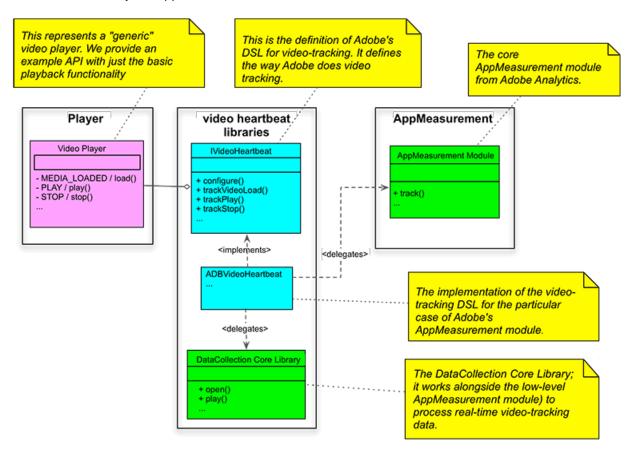
Video heartbeat SDK Guide for ActionScript - Version 1.3.1

Introduction to Video Analytics

The Adobe Video Analytics libraries give video player developers the ability to quickly implement real-time video tracking in their players.

The Adobe Video Analytics video heartbeat library exposes an API that facilitates real-time video tracking in video player applications. The solution documented here is for developers of 3rd-party (non-PSDK-based) video players. For customers interested in activating the built-in video tracking capabilities in a player developed using the Adobe Primetime SDK (on supported platforms), see the *PSDK documentation*.

The video heartbeat library mediates between the high-level video player code and lower-level application measurement code, defining an interface that exists solely to solve the problem of real-time video tracking. The following illustration shows this arrangement, in this case featuring a generic video player, video heartbeat code, and the Adobe Analytics AppMeasurement module:

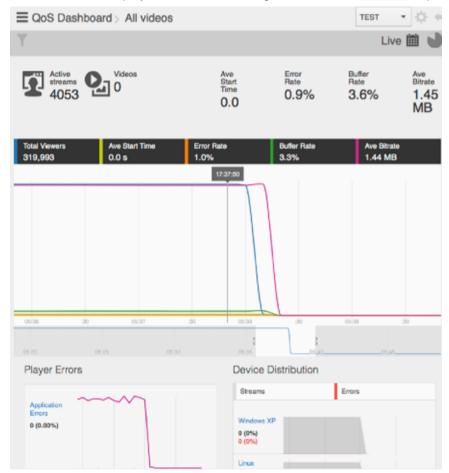


The two main components of the Video Analytics library are:

- IVideoHeartbeat An interface that exposes video tracking methods (trackPlay(), trackAdStart(), etc.); each track*() method corresponds one to one with the video events that occur in the player.
- PlayerDelegate The player delegate is an abstract base class that defines tracking data required by the video heartbeat library. This player delegate must be extended and implemented by the integration engineer to supply

tracking data to the video heartbeats library. (Implementation of the player delegate accounts for the bulk of the development effort.)

The ultimate result of adding real-time video tracking capability to your player is the generation of reports on the server-side that display real-time video usage details, such as this sample QOS report:



Integrating Video Analytics

Integrating Video Analytics real-time video tracking into a non-PSDK-based video player requires acquiring video heartbeat libraries, implementing a player delegate to pass data from the player to the video heartbeats library, and handling video heartbeat events in the player.

Before you begin, make sure to be aware of and understand the different types of video tracking available from Adobe, described here: http://microsite.omniture.com/t2/help/en_US/sc/appmeasurement/hbvideo/.

The steps for a developer integrating Video Analytics real-time video tracking (video heartbeat) into a non-PSDK-based video player are as follows:

- 1. Acquire the required libraries from your Adobe representative, and incorporate them into your project:
 - AppMeasurement library The video heartbeat library uses this library's low-level tracking method to open a viewing session in Adobe Analytics.
 - video heartbeat library Contains the video heartbeat data collection core logic. This is where all of the real-time video tracking takes place. The video heartbeat library uses the AppMeasurement module in the sense that it needs access to a subset of its APIs, and delegates some work to it.

- VisitorID library (For Desktop apps only) Uniquely labels the user of the web page hosting the video player.
- 2. Acquire video tracking account information from your Adobe representative:
 - AppMeasurement tracking server endpoint The URL of the Adobe Analytics (formerly SiteCatalyst) back-end collection end-point.
 - video heartbeat tracking server endpoint The URL of the video heartbeat back-end collection end-point.
 - Account name Also known as the Report Suite ID (RSID)
 - Organization ID (Desktop only) This is a string value required for instantiating the Visitor component.
 - Visitor tracking server endpoint (Desktop only) The URL of the back-end endpoint providing the unique label for the current user.
- 3. Complete the following integration work within your player:
 - Handle video tracking events Listen for the events issued by the player and call the corresponding track
 method exposed by the video heartbeat library's public API.
 - Implement the Player Delegate The player delegate is a base class that abstracts the different types of data that the video heartbeats library requires from the player (main video, ad content, chapters, and QoS). The video heartbeats library requires this data from the player to perform video-tracking operations. The integration engineer must fill in and return an instance of these data structures, which act as simple containers of the required tracking information. Properly implementing the player delegate is crucial for obtaining a robust video tracking solution.



Note: The implementation depends greatly on the specifics of the video player application that the video heartbeat library is being integrated with. The application developer needs to have intimate knowledge about the video player application. The developer must know and understand the mechanisms through which the video player issues notifications about the events that take place during playback. The assumption made here is that the video player is capable of triggering a series of events through which any subscriber can be informed about what happens inside the video player itself.

- 4. Initialize and configure the video tracking libraries on your platform. Video Analytics currently employs both the video heartbeats library (for real-time video tracking), as well as the Adobe Analytics AppMeasurement library for certain low-level tasks. Desktop applications require an additional library, the VisitorAPI, which is a separate component on the desktop but is built-in to video heartbeats on mobile platforms.
- 5. Set up reporting on the server side:
 - Access the Adobe Analytics Admin Tools to set your reporting parameters. For details, see Set Up Video Analytics Reporting on the Server-side.
- 6. Access the reports on the real-time dashboard. For details, see Access Video Analytics Reports.

Initialize / Configure Video Tracking Libraries

The following libraries and configuration data are required to complete the integration; obtain these from your Adobe representative:

- Required Adobe Video Tracking Libraries:
- AppMeasurement library AppMeasurement.swc The video heartbeat library uses this library's low-level tracking method to open a viewing session in Adobe Analytics.

- video heartbeat library VideoHeartbeat.swc Contains the video heartbeat data collection core logic. This is where all of the real-time video tracking takes place. The video heartbeat library also accesses a subset of the AppMeasurement module APIs, and also delegates some work to the AppMeasurement module.
- Required Configuration / Initialization Data:
- AppMeasurement Tracking Server Endpoint The URL of the endpoint where all of the AppMeasurement tracking calls are sent
- video heartbeat Tracking Server Endpoint The URL of the endpoint where all of the video heartbeat tracking calls are sent
- Visitor Tracking Server Endpoint The URL of the endpoint that provides the unique "label" for the current user
- Organization ID A string value required for instantiating the Visitor library
- **Job ID** This is the processing job identifier. It is an indicator for the back-end endpoint about what kind of processing should be applied for the video tracking calls.
- Publisher Name This is the name of the content publisher.
- Account Name Also known as the Report Suite ID (RSID)

The Video Analytics libraries must be instantiated and configured at the application level, in the order given here:

- 1. Instantiate and configure the VisitorAPI library.
- 2. Create an instance of the AppMeasurement library. This instance must aggregate the VisitorAPI instance.
- 3. Instantiate and configure the video heartbeat library. The video heartbeat library aggregates the AppMeasurement instance created during the previous step.

The application developer is in charge of properly instantiating all of the required libraries, while managing this dependency chain: VisitorAPI -> AppMeasurement -> video heartbeat.

1. Instantiate and configure the VisitorAPI library:

```
// Instantiation - Actual values are provided by Adobe
var visitor:Visitor = new Visitor(<ORG_ID>, <NAMESPACE>);

// Configuration
visitor.trackingServer = <TRACKING_SERVER_URL>;
```

Instantiating the Visitor API library requires an organization ID and a namespace (provided in advance by Adobe). These are pure string values.

There is only one configuration option available for the VisitorAPI component, and that is the URL of the back-end endpoint of the visitor service.

2. Instantiate the AppMeasurement library:

```
// Instantiation
var appMeasurementObject:AppMeasurement = new AppMeasurement();
appMeasurementObject.account = ACCOUNT_NAME; // Also known as RSID

// Put here the same value as provided above for Visitor API.
appMeasurementObject.visitorNamespace = VISITOR-API_NAMESPACE;
appMeasurementObject.trackingServer = URL_OF_ADOBE_ANALYTICS_TRACKING_SERVER;

// Attach the VisitorAPI to the AppMeasurement instance.
appMeasurementObject.visitor = visitor;
```

3. Configure the AppMeasurement library:

There are many configuration options available on the AppMeasurement instance that are not shown here. (See the *Adobe Analytics Developer page* for more configuration options.) The options shown in the sample code above are required:

• account

- visitorNamespace (Organization ID)
- trackingServer

These values are provided in advance by Adobe.

It is important to properly set up the dependency chain: the AppMeasurement instance aggregates (depends on) the Visitor API library.

4. Instantiate and configure the video heartbeat library.

Instantiating the video heartbeat library is a two step process, due to its dependency on these two components:

- The AppMeasurement library
- An implementation of the of the PlayerDelegate abstract class

It is the responsibility of the video player developer to extend and instantiate the PlayerDelegate class.

Instantiate the video heartbeat component:

```
// Here, the CustomPlayerDelegate class extends the
// PlayerDelegate abstract class.
var playerDelegate:CustomPlayerDelegate = new CustomPlayerDelegate();

// We now have all ingredients to instantiate the VideoHeartbeat library.
var videoHeartbeat:VideoHeartbeat =
   new VideoHeartbeat(appMeasurementObject, playerDelegate);
```

Configure the newly created video heartbeat instance:

- Mandatory configuration parameters. This set of parameters are provided as input arguments to the constructor method of the ConfigData class. Below is a description of these parameters in order:
- URL of the tracking end-point heartbeats.omtrdc.net This is where all of the video-heartbeat calls are sent.
- **jobld** j2 This is the processing job identifier. It is an indicator for the back-end end-point about what kind of processing should be applied for the video-tracking calls.
- publisher This is the name of the content publisher. This value is provided by Adobe in advance.

Optional configuration parameters (provided as publicly accessible instance variables on the ConfigData class):

- channel The name of the distribution channel. Any string can be provided here. Default value: the empty string.
- **ovp** The name if the Online Video Platform though which the content is distributed. (For example, YouTube). It can be any arbitrary string. Default value: **unknown**.
- sdk The version string of the video-player app. It can be any arbitrary string. Default value: unknown.

- debugLogging Activates the tracing and logging infrastructure inside the VideoHeartbeat library. Default value: false.
- quietMode Activates the "quiet mode" of operation, where all output HTTP calls are suppressed. Default value: false.



Note: Setting the <code>debugLogging</code> flag to <code>true</code> activates extensive tracing messaging, which may impact performance, and may significantly increase the attack surface. While tracing is useful during development and debugging efforts, the application developer must set this flag to <code>false</code> for the production version of the player app. The logging mechanism is disabled by default.

5. Tear down the video heartbeat instance.

The integration engineer is responsible for manually and explicitly managing the lifecycle of the video heartbeat instance. As a result, the also provides a <code>destroy()</code> method that allows for the execution of various tear-down operations (including de-allocating internal resources):

videoHeartbeat.destroy()



Note: Graceful Termination for the VideoHeartbeat instance:

It is important to understand that all the "track" methods exposed through the VideoHeartbeat public API are non-blocking (i.e., asynchronous). Whenever the integration code calls any of the track*() methods, the VideoHeartbeat instance does very few things synchronously. The library will rush to obtain the information it needs from the player delegate (if necessary) and all of the computation work is pushed onto a job-queue that is consumed asynchronously. This means that the calls to the Videoheartbeat track*() methods are practically instantaneous. This approach ensures that the UI will not be blocked when a track*() method is called.

This design also means that the end-of-lifecycle for the VideoHeartbeat instance requires a little extra consideration to ensure a graceful termination. For example, the following code sample works fine, technically, however it could present a timing issue:

```
// The playback of the main video has completed.
videoHeartbeat.trackComplete();

// The main video asset was unloaded.
videoHeartbeat.trackVideoUnload();

// Terminate the VideoHeartbeat instance.
videoHeartbeat.destroy();
```

The problem with this approach is that both the <code>trackComplete()</code> and <code>trackVideoUnload()</code> methods return very quickly after registering their workload as additional tasks to the job-queue being consumed asynchronously. The purpose of the <code>trackComplete()</code> method is to sent the <code>complete</code> event over the network while the <code>trackVideoUnload()</code> wants to send the <code>UNLOAD</code> event. However, the immediate invocation of the <code>destroy()</code> method will cancel all the pending tasks inside the job-queue. The net result is that the VideoHeartbeat instance will no longer be able to send either the <code>complete</code> or the <code>UNLOAD</code> events.

To handle this end-of-lifecycle corner case, the player delegate class includes the <code>onVideoUnloaded()</code> callback method. This method is called by the VideoHeartbeat instance after the network call for the <code>UNLOAD</code> event is sent over the wire. This signals the integration layer that the tracking of the current video session is complete, and that it is safe to call the <code>destroy()</code> method without any unwanted side-effects. The code sample below demonstrates the graceful termination of a VideoHeartbeat instance:

```
// The playback of the main video has completed.
videoHeartbeat.trackComplete();
```

```
// The main video asset was unloaded.
videoHeartbeat.trackVideoUnload();

[...]
// Inside the custom implementation of the PlayerDelegate:
public function onVideoUnloaded():void {
    // It is now safe to terminate the VideoHeartbeat instance.
    videoHeartbeat.destroy();
}
```

Handle Player Events

The assumption made here is that the video player you are working with is capable of triggering a series of events through which any subscriber can be informed about what happens inside the video player itself. The following tables present the one-to-one correspondence between player events and the associated function call exposed by the public API of the video heartbeats library.

Playback Tracking:

Operation	Method Call	Parameter List
Load the main video asset	trackVideoLoad	None
Unload the main video asset	trackVideoUnload	None
Playback start	trackPlay	None
Playback stop/pause	trackPause	None
Playback complete	trackComplete	None
Seek start	trackSeekStart	None
Seek complete	trackSeekComplete	None
Buffer start	trackBufferStart	None
Buffer complete	trackBufferComplete	None

Ad Tracking:

Operation	Method Call	Parameter List
DEPRECATED - A new ad-break (i.e., pod) starts	trackAdBreakStart	None
DEPRECATED - An ad-break completes	trackAdBreakComplete	None
An ad starts	trackAdStart	None
An ad completes	trackAdComplete	None



Note: Ad-tracking APIs are simplified:

Beginning with v1.3.1/API 1, the trackAdBreakStart() and trackAdBreakComplete() methods are deprecated. The video heartbeat library no longer requires the integration code to enclose the tracking of ad-segments inside a pair of trackAdBreakStart() and trackAdBreakComplete() calls. It is sufficient to simply call the trackAdStart() and trackAdComplete() methods when necessary. With each call to the trackAdStart() method, the video heartbeat library will make use of the player delegate implementation to obtain both the ad and the ad-break info from the player delegate.

Operation	Method Call	Parameter List
A new chapter starts	trackChapterStart()	None
A chapter completes	trackChapterComplete()	None

QoS Tracking:

Operation	Method Call	Parameter List
The ABR engine switches the current	trackBitrateChange()	None
bit-rate		

Error Tracking:

Operation	Method Call	Parameter List
Error at the player level	trackVideoPlayerError()	errorId:String - Unique error identifier
Error at the application level	trackApplicationError()	errorId:String - Unique error identifier

Listen for the events issued by the player object and call the corresponding track method exposed by the library's public API.

Implement the Player Delegate

The Player Delegate is where the integration engineer queries the video player APIs to gather the data required by the video heartbeat library.

All of the information that the video heartbeat library requires from the video player is provided by the integration engineer through an implementation of the extended PlayerDelegate abstract class. This is the only location where the integration engineer queries the video player APIs to gather the data required by the video heartbeat library.

PlayerDelegate Abstract Class:

```
public class PlayerDelegate {
    public function get videoInfo():VideoInfo;
    public function get adInfo():AdInfo;
    public function get adBreakInfo():AdBreakInfo;
    public function get chapterInfo():ChapterInfo;
    public function get qosInfo():QosInfo;
    public function onError(errorInfo:ErrorInfo):void;
}
```



Note:

The integration engineer has no control over either the sequence or the exact moment when the methods inside the player delegate are called upon by the video heartbeat code. The integration code should not make any assumptions about the order or timing in which these calls are being made. The integration engineer should only concern himself with providing the most accurate information possible at any moment in time. If that is not possible, the integration code should just return NULL to any of the <code>get...()</code> methods defined by the player delegate.

For example: Let's assume a situation in which the video heartbeat library makes a call to the getAdInfo() method. However, at the level of the integration code, the player decides that he is actually no longer inside an ad. Obviously, in such a scenario, we are dealing with a synchronisation issue between the player and the video heartbeat library. At this point, the integration engineer should just return NULL. This would allow the video heartbeat to activate its internal recovering mechanisms and (if possible) resume the tracking of the playback for the main video.

1. Gather video content data.

```
public class VideoInfo {
    public var playerName:String;
    public var id:String;
    public var name:String;
    public var length:Number;
    public var playhead:Number;
    public var streamType:String;
}
```

Parameter	Required	Description
playerName	Mandatory	The name of the video player that is playing back the main content
id	Mandatory	The ID of the video asset
name	Optional	The name of the video asset (opaque string value)
length	Mandatory for VOD	The duration (in seconds) of the video asset (if available, see notes below)
playhead	Mandatory	The playhead (in seconds) value inside the video asset (excluding ad content) at the moment this method was called
streamType	Mandatory	The type of the video asset (one of the values defined in the AssetType class: VOD, LIVE or LINEAR)



Note: There are situations where the length value for the main asset is unavailable to the player. This is true for LINEAR/LIVE assets. In such cases, the integration engineer should pass -1 for the playhead value.

2. Gather ad content data.

```
public class AdBreakInfo {
    public var playerName:String;
    public var name:String;
```

```
public var position:Number;
public var startTime:Number;
```

Parameter	Required	Description
playerName	Mandatory	The name of the video player responsible for playing back the current advertisement break
name	Optional	The name of the ad break (opaque string value)
position	Mandatory	The position of the pod inside the main content (starting with 0)
startTime	Optional	The offset of the ad-break inside the main content (in seconds).
		Default value: the value of the playhead inside the main content at the moment the call to trackAdStart() is made (obtained by the video heartbeat library via the PlayerDelegate implementation).

```
public class AdInfo {
    public var id:String;
    public var name:String;
    public var length:Number;
    public var playhead:Number;
    public var position:Number;
    public var cpm:String;
}
```

Parameter	Required	Description
id	Mandatory	The ID of the ad asset
name	Optional	The name of the ad asset (opaque string value)
length	Mandatory	The duration (in seconds) of the ad asset
playhead	Mandatory	The playhead value (in seconds) inside the ad asset (how much of the ad has played)
cpm	Optional	The CPM value associated with this ad

3. Gather chapter data.

When the integration code makes a call to the <code>trackChapterStart()</code> method, the video heartbeat library will react with the following operation: it triggers a call into the "player delegate" to obtain the required information about the chapter which is about to start:

```
public class ChapterInfo {
    public var name:String;
    public var length:Number;
    public var position:Number;
```

```
public var startTime:Number;
}
```

Parameter	Required	Description
name	Optional	The name of the chapter (opaque string value)
length	Mandatory	The duration (in seconds) of the chapter
position	Mandatory	The position of the chapter inside the main content (starting from 1)
startTime	Mandatory	The offset inside the main content where the chapter starts

4. Gather QoS data.

```
public class QoSInfo {
    public var bitrate:Number;
    public var fps:Number;
    public var droppedFrames:Number;
}
```



Note: QoS data is appended to all out-bound HTTP calls issued by the video heartbeat library. So, QoS-related video-tracking workflows are triggered implicitly by all the track...() methods defined by the IVideoHeartbeat interface. The video heartbeat library addresses this situation by defining a trackQoSUpdateInfo() method through which the integration engineer can "inject" the latest QoS values provided by the player into the video heartbeat library at regular intervals.

Parameter	Required	Description
bitrate	Mandatory	The bitrate value (expressed in bps)
fps	Mandatory	The frame rate (it will be truncated to its integer part)
droppedFrames	Mandatory	Cumulated value of the number of frames dropped by the video rendering engine. NOTE: This is not a "per-second" metric.

5. Track Errors

```
public class ErrorInfo {
    public function get message():String;
    public function get details():String;
}
```

6. Monitor the **Error State** of the video heartbeat library.

In addition to the methods allowing the integration engineer to provide information back to the video heartbeat library, the "player delegate" also provides a way to signal back to the application layer the error states occurring inside the library itself. The video heartbeat library will switch into the ERROR State when it determines that it no longer has enough relevant information to continue with a meaningful video-tracking session. Examples of such situations include:

- Invalid configuration the absence of the RSID, an invalid URL for the tracking end-point, the absence of the VisitorAPI values, etc.
- Invalid information provided via the "player delegate". For example: the ID of the main video is NULL or the empty string.

Internal exception triggered inside the video heartbeat library.



Note: While in the ERROR State, all tracking activities inside the video heartbeat library are suspended. Calling any of the track...() methods (except trackVideoLoad()) will have no effect (other than a warning message being sent to the tracing console). Getting out of the ERROR State is only possible by starting a new tracking session via a call to the trackVideoLoad() method (i.e., reload the main content).



Note: If you provide invalid configuration information, the integration engineer needs to properly re-configure the library via a call to the <code>configure()</code> method. Otherwise, calling <code>trackVideoLoad()</code> again will just cause the video heartbeat library to return to the ERROR State, because the cause of the error remains.

Troubleshoot the Integration

To troubleshoot the video heartbeat library integration you can leverage the extensive tracing and logging mechanism that is integrated throughout the video tracking stack. Both the video heartbeat library and the AppMeasurement library are equipped with this tracing and logging infrastructure.

Activate tracing at runtime.

Tracing can be activated at run-time via the debugLogging configuration flag:

```
// Instantiate the configuration object.
var heartbeatConfig:VideoHeartbeatConfigData = new VideoHeartbeatConfigData();

// Set this to true to activate the debug tracing heartbeatConfig.debugLogging = true;

videoHeartbeat.config(heartbeatConfig);
```

But wait, what if I am using the release version of the libraries?

You can view tracing messages by using the tracking capabilities built-in to the video tracking libraries. The trace() method generates messages in the usual fashion, and at the same time forwards the messages to the developer tools window of your browser (using the External interface). For Flash developers accustomed to viewing trace messages by compiling with the debug flag set, and executing inside the FlashPlayer debugger container: Adobe delivers the video tracking libraries compiled in release mode, so the message tracing capability is built-in.

Sample trace line:

```
[17:15:31 GMT+0200.463] [DEBUG] [com.adobe.primetime.videoheartbeat.mediafork.realtime.clock::TimerManager] #_onTick() > ------ (72)
```

Each trace line is made up of the following sections:

- Current time stamp This is the current CPU time (time-zoned for GMT)
- Level There are 4 message levels defined: DEBUG, INFO, WARN and ERROR
- The fully qualified class name that issued the trace message
- The method in which the trace message originated (it starts with the '#' symbol)
- The actual trace message (following the '>' symbol)
- 2. Look at the network calls that are issued by the video heartbeat module.

If your browser of choice allows filtering (like the more recent Chrome versions do) you can filter for the __job_id string. The result is a very nice view of all the network calls issued by the heartbeat core engine.

Get Library Version Information

The video heartbeat library provides an interface called Version that contains all version-related information.

Version Class:

```
package com.adobe.primetime.va {
   public class Version {
        * The current version of the library. This has the following format:
$major.$minor.$micro
        public static function get version():String;
        * The major version
        * /
        public static function get major():String;
        * The minor version
        public static function get minor():String;
         * The micro version
        public static function get micro():String;
        * The patch level
        public static function get patch():String;
         * The build identifier
        public static function get build():String;
        * The API level
        public static function get apiLevel():String;
```

The public API exposed by the Version class defines a read-only version property which provides a string with the following format:

```
flash-<major>.<miro>.<patch>-<build.no>
```

Here are the rules that govern the elements in the version string:

- major When there are major architectural changes that significantly affect the client-backend protocol, this number will be increased.
- minor When a new feature or fix is available that requires changes in the public API, this number will be increased.
- micro When new functionality or a fix is available (may introduce API changes)
- patch This is increased frequently. Bug fixes automatically increase this number.
- build.no This is a string consisting of the first 7 hex digits identifying the Git commit from which the release package was generated

Determine version-related information on your copy of the video heartbeat library by using this API.

Set Up Video Analytics Reporting on the Server-side

Adobe Analytics Video Essentials requires set up on the server-side.

If you are only using the built-in Primetime player monitoring aspect of Video Analytics, you can skip this section. Reporting set up is only necessary for customers who are leveraging Adobe Analytics Video Essentials (which provides video engagement metrics). Your Adobe representative will handle most aspects of the server-side setup for Adobe Analytics reporting, but you can also see detailed documentation on the process here: *Analytics Help and Reference - Report Suite Manager*.

These are the main tasks to be accomplished for server-side setup:

- Analytics setup Enable conversion level for RSID
- · Analytics setup Enable video tracking

The following procedure describes how to complete server-side setup:

- 1. Analytics Setup Enable conversion level for RSID:
 - a) Access Admin Tools
 - b) Select Report Suites
 - c) Select the RSID to set up
 - d) Select Edit Settings -> General -> General Account Settings
 - e) Choose Enabled, no Shopping Cart in the Conversion Level combo box
 - f) Click Save.
- 2. Analytics Setup Enable Video Tracking
 - a) Access Admin Tools
 - b) Select Report Suites
 - c) Select the RSID to set up
 - d) Select Edit Settings -> Video Management -> Video Reporting
 - e) Click on the Yes, start tracking green button

Access Video Analytics Reports

Access Video Analytics reports on Adobe Analytics and on the Primetime Player Monitoring.

Video Analytics reports are routed to two different reporting platforms:

- Adobe Analytics
- · Primetime player monitoring
- 1. Access Adobe Analytics:
 - a) Select the video-tracking enabled RSID.
 - b) Navigate to Video -> Video Engagement -> Video Overview.

This brings up the overview report.

c) Select a video clip

This displays the minute level granularitgy drop-off report.

For more information on Adobe Analytics setup, see Adobe Analytics Documentation Home.

2. Access Primetime player monitoring:

- a) Navigate to http://rtd.adobeprimetime.com.
- b) Log in with your credentials.

An overview report is displayed, that shows all running videos in a list.

c) Select a video from the overview list.

The real-time report for the selected video is displayed.

To view examples of video reports, see Video Reports

Sample Player

For an example of a real-time video tracking solution, see the sample application in the samples folder of your SDK installation.

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