

## API documentation for RDK Media Player

The below tables list the available Properties, Functions and Events on RDK Media Player interface.

### Properties

Name	DataType	Read/Write	Description
audioLanguage	String	r/w	primary audio language. If set to a value that does not exist for the content, value will not be changed.
autoPlay	Boolean	r/w	when true, video starts playing immediately; when false, playback must be manually started.
availableAudioLanguages	String [ ]	r	array of the available audio languages for this video
availableClosedCaptionsLanguages	String [ ]	r	array of the available captions languages for this video
availableSpeeds	String [ ]	r	array of the available playback speeds for this video
closedCaptionsEnabled	Boolean	r/w	when true, closed captioning is enabled; when false, closed captioning is disabled
closedCaptionsLanguage	String	r/w	closed captions language. If set to a value that does not exist for the content, value will not be changed.
closedCaptionsOptions	Object	r/w	caption options
contentOptions	Object	r/w	hash of k/v pairs required for content playback
duration	Number	r	duration of video in milliseconds
position	Number	r/w	position of video
secondaryAudioLanguage	String	r/w	secondary audio language. If set to a value that does not exist for the content, value will not be changed.

speed	Number	r/w	playback speed
tsbEnabled	Boolean	r/w	when false, TSB will not be available. when true, TSB may be available if video and device support it.
url	String	r/w	video content URL
volume	Number	r/w	a value from 0 to 100. Defaults to 100.
zoom	String	r/w	"FULL" or "NONE". When FULL, content is stretched to width and height of player. When NONE, content is best fit to width or height of player without distorting the video's aspect ratio.

### **Functions**

<b>Name</b>	<b>Return Value</b>	<b>Arguments</b>	<b>Description</b>
play	void	none	starts video playback
pause	void	none	pauses video playback. Equivalent to speed = 1
stop	void	none	stops video playback. Video is not expected to resume.
setSpeed	void	speed - Number overshootCorrection - Number (milliseconds)	sets the speed and adjusts the position of the video by the number of milliseconds specified by overshootCorrection
setPositionRelative	void	seconds - Number	Sets the position of the video by adding the given number of seconds. seconds may be positive or negative, but should not cause the position to be less than zero or greater than the duration.
requestStatus	void	none	Requests the onStatus event to be fired

setAdditionalAuth	void	params - Object	provides a set of k/v pairs required for additional authentication and authorization
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### **Events**

onMediaOpened	mediaType - String - has one of the following values: live, liveTSB, recorded width - Number height - Number availableSpeeds - Number availableAudioLanguages - String [ ] availableClosedCaptionsLanguages - String [ ] customProperties - Object mediaSegments - Object	Fired when video content has been opened
onClosed	none	fired when the video stream is closed
onPlayerInitialized	none	fired when the video player is initialized
onBuffering	none	fired when video starts buffering. playback is not possible at this time.
onPlaying	none	fired when video starts playing for the first time.
onPaused	none	fired when video is paused (or speed is set to 0)
onComplete	none	fired when video is reaches its end, VOD or cDVR for example.

onIndividualizing	none	fired when player is individualizing. Playback is not possible. Not all instances will fire this event.
onAcquiringLicense	none	fired when player is acquiring a license. Playback is not yet possible. Not all instances will fire this event.
onProgress	position - Number - current position in milliseconds duration - Number - length of content in milliseconds (recorded video only) speed - Number - current playback speed start - Number - start position of the TSB buffer, -1 when no buffer available end - Number - end position of the TSB buffer, -1 when no buffer available	fired periodically when player progresses
onWarning	code - Number description - String	fired when a warning occurs. video playback will likely continue.
onError	code - Number description - String	fired when an error occurs. video playback will terminate.
onSpeedChange	speed - Number	fired when playback speed changes
onDRMMetadata	props - Object	fired when DRM metadata is acquired. Contains DRM related properties.
onSegmentStarted	segmentType - String duration - Number segmentId - String segment - Object	fired when a new segment is started.

onSegmentCompleted	segmentType - String duration - Number segmentId - String segment - Object	fired when a segment is has completed
onSegmentWatched	segmentType - String duration - Number segmentId - String segment - Object	fired when a segment has been started and completed.
onBufferWarning	warningType - String - one of BUFFER_UNDERFLOW or BUFFER_OVERFLOW  bufferSize - Number - total size of buffer  bufferFillSize - Number - current filled size of buffer	
onPlaybackSpeedsChanged	availableSpeeds - String [ ]	fired when playback speeds have changed. This may happen when the video switches from one segment to the next.
onAdditionalAuthRequired	locator - String eventId - String	fired when video needs additional auth to continue playback
onBitrateChanges	bitrate - Number reason - String - descriptive reason for change	fired when the player selects a new bitrate to playback with. this can happen multiple times for adaptive streams, or once at the start of non-adaptive
onStatus	position duration width height bufferPercentage connectionURL dynamicProps isBuffering	fired in response to requestStatus

	isLive netStreamInfo	
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