# OnStream MediaPlayer+ Player SDK Migration Guide on Android Platform API Version 2 to API Version 3

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## 1 About This Manual

#### 1.1 Overview

This application guide provides a reference to assist developers in upgrading VisualOn<sup>®</sup> OnStream<sup>®</sup> MediaPlayer+ (referred hereafter to as OSMP+) API Version 2 (V2) to OSMP+ API Version 3 (V3).

#### 1.2 Related Documents

The following documents that are located under the Doc directory in your installation package provide additional information related to this application guide:

- API Reference Manual.zip
- OnStream MediaPlayer+.Player SDK Integration Guide for Android.pdf
- OnStream MediaPlayer+.SDK Project Setup for Android.pdf
- OnStream MediaPlayer+.Player API Upgrade AG.pdf



# 2 General Migration

# 2.1 Minimum Android SDK Support

The V3.15 SDK release requires a minimum Android API level 8 and Android 2.3 or above. For more information on setting the minimum required SDK for Android project, refer to the *OnStream MediaPlayer+ SDK Project Setup for Android* document.

## 2.2 SDK Package Changes

API V2 release uses the following package structure:

- com.visualon.OSMPBasePlayer
- com.visualon.OSMPHDMICheck
- com.visualon.OSMPSubTitle
- com.visualon.OSMPUtils

API V3 release uses the following package structure:

- com.visualon.OSMPPlayer.VOCommonPlayer
  - o com.visualon.OSMPPlayer.VOCommonPlayerStatus
  - o com.visualon.OSMPPlayer.VOCommonPlayerControl
  - o com.visualon.OSMPPlayer.VOCommonPlayerConfiguration
  - o com.visualon.OSMPPlayer.VOCommonPlayerRTSPConfiguration
  - o com.visualon.OSMPPlayer.VOCommonPlayerHTTPConfiguration
  - o com.visualon.OSMPPlayer.VOCommonPlayerPlayerAssetSelection
  - o com.visualon.OSMPPlayer.VOCommonPlayerSubtitle
  - o com.visualon.OSMPPlayer.VOCommonPlayerDeviceInfo



# 3 API Migration

API V3 includes the following general changes and updates:

- Naming conventions have been modified for consistency across platforms
- Parameters and return types have been updated to use SDK types to improve clarity
- Time-related parameters and return values have been increased to long integers
- Methods returning void now return VO\_OSMP\_RETURN\_CODE

See Table 1 for the detailed information about method updates. For more information about the new methods in API V3, refer to the *API Reference Manual.zip* file.

**Table 1: Detailed method updates** 

API V2	API V3	Comment
int Init()	VO_OSMP_RETURN_CODE init()	
int Uninit()	VO_OSMP_RETURN_CODE	
	destroy()	
<pre>void SetView()</pre>	VO_OSMP_RETURN_CODE	
	setView()	
void SetDisplaySize()	VO_OSMP_RETURN_CODE	
	setViewSize()	
void	VO_OSMP_RETURN_CODE	
updateVideoAspectRatio()	setVideoAspectRatio()	
int Open()	VO_OSMP_RETURN_CODE open()	
int Close()	VO_OSMP_RETURN_CODE close()	
int Run()	VO_OSMP_RETURN_CODE start()	
int Pause()	VO_OSMP_RETURN_CODE pause()	
int Stop()	VO_OSMP_RETURN_CODE stop()	
int SetPos(int nPos)	VO_OSMP_RETURN_CODE	
	setPosition(long msec)	
int GetPos()	long getPosition()	
int GetDuration()	long getDuration()	
<pre>int SetVolume(float fLeft,</pre>	VO_OSMP_RETURN_CODE	
float fRight)	setVolume(float volume)	
onEven	onVOEvent	
onRequest	onVOEvent	
	onVOSyncEvent	



GetProgramInfo	Managed by:	
GetCurTrackInfo	getVideoCount	
SelectProgram	• getAudioCount	
SelectStream	• getSubtitleCount	
SelectStream	• selectVideo	
SelectTrack	• selectAudio	
GetSubtitleLanguageInfo	• selectSubtitle	
SelectSubtitleLanguage	• commitSelection	
	• clearSelection	
	<ul> <li>getVideoProperty</li> </ul>	
	• getAudioProperty	
	• getSubtitleProperty	
	• getPlayingAsset	
	• getCurrentSelection	
setEventListener	setOnEventListener	
N/A	canBePaused	
GetParam	getParameter	The getParameter method should
		only be used based on
		recommendation by VisualOn.
SetParam	setParameter	The setParameter method should
		only be used based on
		recommendation by VisualOn.



## 4 Parameter IDs

API V3 uses the dedicated API method to replace the parameter IDs used in API V2. The *getParameter* method and *setParameter* method should only be used based on recommendation by VisualOn.

See Table 2 for the detailed information about parameter ID updates. For more information about the new methods in API V3, refer to the *API Reference Manual.zip* file.

**Table 2: Detailed parameter ID changes** 

API V2 Parameter ID	API V3 Method	Comment
VOOSMP_PID_STATUS	VO_OSMP_STATUS getPlayerStatus()	
VOOSMP_PID_PLAYER_TYPE	VO_OSMP_PLAYER_ENGINE getPlayerType()	
VOOSMP_PID_CPU_INFO	Managed by:	
	• getNumberOfCores	
	• getMaxCPUFrequency	
	• getProcessorType	
	• getOSType	
	• getOSVersion	
	• getDeviceModel	
VOOSMP_SRC_PID_DVRINFO	Managed by:	
	• getMinPosition	
	• getMaxPosition	
VOOSMP_PID_MODULE_VERSION	getVersion(VO_OSMP_MODULE_TYPE module)	
VOOSMP_SRC_PID_GET_IO_STATUS	VO_OSMP_DOWNLOAD_STATUS	
	getDownloadStatus(VO_OSMP_SOURCE_STRE	
	AMTYPE trackType)	
VOOSMP_SRC_PID_GET_EFFECTIVE	getValidBufferDuration()	
_DURATION		
VOOSMP_PID_OUTPUT_CONTROL_AC	isOutputControlActive(VO_OSMP_OUTPUT_	
TIVE	CONTROL_TYPE type)	
VOOSMP_PID_OUTPUT_CONTROL_EN	isOutputControlEnforce(VO_OSMP_OUTPUT	
FORCE	_CONTROL_TYPE type)	
VOOSMP_PID_UTC_POSITION	getUTCPosition()	
VOOSMP_SRC_PID_DRM_FILE_NAME	VO_OSMP_RETURN_CODE setDRMLibrary(	
VOOSMP_SRC_PID_DRM_API_NAME	String libName, String libApiName)	
VOOSMP_SRC_PID_DOHTTPVERIFIC	VO_OSMP_RETURN_CODE	



ATION	setHTTPVerificationInfo((VOOSMPVERIFI	
	CATIONInfo info)	
VOOSMP_SRC_PID_DRM_FILE_PATH	VO_OSMP_RETURN_CODE	
	setDRMFilePath(String filePath)	
VOOSMP_SRC_PID_ENABLE_GZIP_I	VO_OSMP_RETURN_CODE	
N_REQUEST	enableHTTPGzipRequest(boolean enable)	
setSmoothBAWhiteListFile	setSmoothBAWhiteListFile	
VOOSMP PID AUDIO EFFECT ENDP	VO_OSMP_RETURN_CODE	
OINT_TYPE	setAudioEffectEndpointType(VO_OSMP_AU	
OINI_IIPE		
WOOGND GDG DID GOGVEE GONNIEG	DIO_EFFECT_ENDPOINT_TYPE type)	
VOOSMP_SRC_PID_SOCKET_CONNEC	VO_OSMP_RETURN_CODE	
TION_TYPE	setRTSPConnectionType(	
	VO_OSMP_RTSP_CONNECTION_Type type)	
VOOSMP_SRC_PID_CAP_TABLE_PAT	VO_OSMP_RETURN_CODE	
H	setDeviceCapabilityByFile(	
	String filename)	
VOOSMP_SRC_PID_BA_STARTCAP	VO_OSMP_RETURN_CODE setInitialBitrate(	
	int bitrate)	
VOOSMP_SRC_PID_DODRMVERIFICA	VO_OSMP_RETURN_CODE	
TION	setDRMVerificationInfo(	
	VOOSMPVerificationInfo info)	
VOOSMP_SRC_PID_DRM_UNIQUE_ID	setDRMUniqueIndentifier(	
ENTIFIER	String string)	
VOOSMP_PID_DRM_UNIQUE_IDENTI		
FIER		
VOOSMP_SRC_PID_Timed_Text_Cl	VO_OSMP_RETURN_CODE setSubtitlePath(	
osedCaption	String filePath)	
VOOSMP_SRC_PID_DRM_INIT_DATA	VO_OSMP_RETURN_CODE	
_RESPONSE	setDRMInitData(VOOSMPDRMInit initData)	
VOOSMP_SRC_PID_DISABLE_CPU_A	VO_OSMP_RETURN_CODE	
DAPTION	enableCPUAdaptation(boolean value)	
VOOSMP_PID_AUDIO_PCM_OUTPUT	VO_OSMP_RETURN_CODE	
	enablePCMOutput(boolean value)	
VOOSMP_PID_SUBTITLE_FILE_NAM	VO_OSMP_RETURN_CODE setSubtitlePath(	
E	String filePath)	
VOOSMP_SRC_PID_BUFFER_START_	VO_OSMP_RETURN_CODE	
BUFFERING_TIME	setInitialBufferingTime(	
	int time)	



VOOSMP_SRC_PID_BUFFER_BUFFER	VO_OSMP_RETURN_CODE	
ING_TIME	setAnewBufferingTime(int time)	
VOOSMP_SRC_PID_BITRATE_THRES	VO_OSMP_RETURN_CODE	
HOLD	setBitrateThreshold(int upper, int	
	lower)	
VOOSMP_SRC_PID_SEGMENT_DOWNL	VO_OSMP_RETURN_CODE	
OAD_RETRY_COUNT	setSegmentDownloadRetryCount(int	
	times)	
VOOSMP_SRC_PID_ENABLE_RTSP_H	VO OSMP RETURN CODE	
TTP_TUNNELING	enableRTSPOverHTTP(boolean enable)	
VOOSMP_SRC_PID_RTSP_OVER_HTT	VO_OSMP_RETURN_CODE	
P_CONNECTION_PORT	setRTSPOverHTTPConnectionPort(int	
	count)	
VOOSMP_SRC_PID_UPDATE_SOURCE	VO_OSMP_RETURN_CODE	
_URL	updateSourceURL(String url)	
VOOSMP_SRC_PID_LOW_LATENCY_M	VO_OSMP_RETURN_CODE	
ODE	enableLowLatencyVideo(	
	boolean value)	
VOOSMP_PID_LOAD_DOLBY_DECODE	VO_OSMP_RETURN_CODE	
R_MODULE	enableAudioDecoderLibrary(VO_OSMP_AUD	
VOOSMP_PID_LOAD_AUDIO_EFFECT	IO_CODEC_TYPE type, boolean value)	
_MODULE		
VOOSMP_PID_LOAD_AUDIO_DECODE		
R_MODULE		
VOOSMP_PID_PREVIEW_SUBTITLE	VO_OSMP_RETURN_CODE	
	previewSubtitle(String sampleText, View	
	view)	
VOOSMP_SRC_PID_HTTP_RETRY_TI	VO_OSMP_RETURN_CODE	
MEOUT	setHTTPRetryTimeout(int time)	
VOOSMP_SRC_PID_PREFERRED_AUD	VO_OSMP_RETURN_CODE	
IO_LANGUAGE	setDefaultAudioLanguage(String	
VOOSMP_SRC_PID_DEFAULT_AUDIO	language)	
_LANGUAGE		
VOOSMP_SRC_PID_PREFERRED_SUB	VO_OSMP_RETURN_CODE	
TITLE_LANGUAGE	setDefaultSubtitleLanguage(String	
VOOSMP_SRC_PID_DEFAULT_SUBTI	language)	
TLE_LANGUAGE		
VOOSMP_SRC_PID_DRM_ADAPTER_O	VO_OSMP_RETURN_CODE	



BJECT	setDRMAdapter(Object adapter, Boolean	
	isLibraryName)	
VOOSMP_PID_AUDIO_PLAYBACK_SP	VO_OSMP_RETURN_CODE	
EED	setAudioPlaybackSpeed(float speed)	
VOOSMP_PID_DRAW_RECT	VO_OSMP_RETURN_CODE setZoomMode(	
	VO_OSMP_ZOOM_MODE mode,	
	Rect rect)	
N/A	VO_OSMP_RETURN_CODE	
	enableLiveStreamingDVRPosition()	
VOOSMP_PID_DRAW_COLOR	VO_OSMP_RETURN_CODE setColorType(	
	VO_OSMP_COLORTYPE type)	
SetScreenBrightnessMode	setScreenBrightnessMode	
GetScreenBrightnessMode	getScreenBrightnessMode	
SetScreenBrightness	setScreenBrightness	
GetScreenBrightness	getScreenBrightness	
VOOSMP_PID_AUDIO_STREAM_ONOF	VO_OSMP_RETURN_CODE	
F	enableAudioStream(boolean value)	
VOOSMP_PID_VIDEO_REDRAW	VO_OSMP_RETURN_CODE redrawVideo()	Only for standalone desktop
		application in future.
VOOSMP_PID_AUDIO_EFFECT_ENAB	VO_OSMP_RETURN_CODE enableAudioEffect(	
LE	boolean value)	
VOOSMP_PID_LICENSE_TEXT	VO_OSMP_RETURN_CODE	
	setPreAgreedLicense(String str)	
VOOSMP_PID_LICENSE_FILE_PATH	VO_OSMP_RETURN_CODE	
	setLicenseFilePath(	
	String str)	
VOOSMP_SRC_PID_RTSP_MAX_SOCK	VO_OSMP_RETURN_CODE	
ET_ERROR_COUNT	setRTSPMaxSocketErrorCount(int count)	
VOOSMP_SRC_PID_RTSP_CONNECTI	VO_OSMP_RETURN_CODE	
ON_TIMEOUT	setRTSPConnectionTimeout(int time)	
VOOSMP_PID_ADAPTIVE_PACKBLAK	enableVOAdaptivePlayback	
VOOSMP_PID_ZOOM_MODE	VO_OSMP_RETURN_CODE setZoomMode(	
	VO_OSMP_ZOOM_MODE mode,	
	Rect rect)	
VOOSMP_PID_LISTENER	VO_OSMP_RETURN_CODE	
	setOnEventListener(	
	VOCommonPlayerListener instance)	
VOOSMP_PID_VIDEO_RENDER_TYPE	VO_OSMP_RETURN_CODE setRenderType(	



	VO_OSMP_RENDER_TYPE type)	
VOOSMP_PID_VIDEO_STREAM_ONOF	VO_OSMP_RETURN_CODE enableVideoStream(	
F	boolean value)	
VOOSMP_PID_DEBLOCK_ONOFF	VO_OSMP_RETURN_CODE enableDeblock(	
	boolean value)	
VOOSMP_PID_SURFACE_CHANGED	VO_OSMP_RETURN_CODE	
	setSurfaceChangeFinished()	
VOOSMP_PID_COMMON_CCPARSER	VO_OSMP_RETURN_CODE enableSubtitle(	
	boolean value)	
VOOSMP_PID_LICENSE_CONTENT	VO_OSMP_RETURN_CODE	
	setLicenseContent(byte[] data)	
VOOSMP_PID_CLOSED_CAPTION_OU	Managed by:	We support rendering the
TPUT	• setSubtitleBoundingBox	subtitle with FCC
voSubTitleFormatSetting	• setSubtitleFontBackgroundColor	compatibility, and support
VOOSMP_PID_SUBTITLE_SETTINGS	• setSubtitleFontBackgroundOpacit	position settings.
VOOSMP_PID_SUBTITLE_SETTINGS	У	
_ONOFF	• setSubtitleFontBold	
VOOSMP_PID_CLOSED_CAPTION_SE	• setSubtitleFontColor	
TTINGS	• setSubtitleFontEdgeType	
	• setSubtitleFontEdgeColor	
	<ul><li>setSubtitleFontEdgeOpacity</li></ul>	
	• setSubtitleFontItalic	
	• setSubtitleFontName	
	• setSubtitleFontOpacity	
	• setSubtitleFontSizeScale	
	• setSubtitleFontUnderline	
	• setSubtitleGravity	
	• setSubtitlePath	
	• setSubtitleTrim	
	• setSubtitleTypeface	
	• setSubtitleWindowBackgroundColo	
	r	
	<ul> <li>setSubtitleWindowBackgroundOpac</li> <li>ity</li> </ul>	
	resetSubtitleParameter	
VOOSMP_PID_LOW_LATENCY	VO_OSMP_RETURN_CODE	
	enableLowLatencyVideo(boolean value)	
VOOSMP_PID_APPLICATION_SUSPE	VO_OSMP_RETURN_CODE suspend(	



ND	boolean keepAudio)	
VOOSMP_PID_APPLICATION_RESUM	VO_OSMP_RETURN_CODE resume(	
E	Object sv)	
VOOSMP_SRC_PID_RTSP_CONNECTI	VO_OSMP_RETURN_CODE	
ON_PORT	setRTSPConnectionPort(VOSOMPRTSPPort	
	portNum)	
VOOSMP_SRC_PID_HTTP_HEADER	VO_OSMP_RETURN_CODE	
	setHTTPHeader(String headerName, String	
	headerValue)	
VOOSMP_SRC_PID_HTTP_PROXY_IN	VO_OSMP_RETURN_CODE	
FO	setHTTPProxy(VOOSMPHTTPProxy proxy)	
VOOSMP_SRC_PID_BUFFER_MAX_SI	VO_OSMP_RETURN_CODE	
ZE	setMaxBufferingTime(int time)	
VOOSMP_SRC_PID_PRESENTATION_	VO_OSMP_RETURN_CODE	
DELAY	setPresentationDelay(int time)	
N/A	• loadAdCall	Newly added in API V3 for
	• loadVideoByUrl	the Ads feature.
	getVideoAdClickThru	
	• loadVideoById	
	• loadVideo	
	• setAdTrackingAPI	
	• enableFullScreen	
	• resume(VO_OSMP_AD_RESUME_MODE	
	resumeMode, long resumePosition)	
VOOSMP_PID_SEI_EVENT_INTERVA	Managed by:	
L	• startSEINotification	
	• stopSEINotification	
GetSEITimingInfo	getSEIInfo	
VOOSMP_PID_RETRIEVE_SEI_IN	VO_OSMP_RETURN_CODE	
FO	enableSEI(VO_OSMP_SEI_INFO_FLAG	
	flag)	
VOOSMP_PID_SEI_POST_VIDEO_	VO_OSMP_RETURN_CODE	
PROCESS	enableSEIPostProcessVideo(boolean	
	value)	
VOOSMP_SRC_PID_PD_CONNECTI	VO_OSMP_RETURN_CODE	
ON_RETRY_TIMES	setPDConnectionRetryCount(int	
	times)	
VOOSMP_PID_READ_SUBTITLE_C	N/A	Obsoleted in API V3



ALLBACK
VOOSMP_PID_AUDIO_DSP_CLOCK
VOOSMP_PID_PAUSE_REFERENCE
_COLOCK
VOOSMP_PID_AUDIO_RENDER_LA
TENCY
VOOSMP_PID_AUDIO_RENDER_FO
RMAT
VOOSMP_PID_OUTPUT_CONTROL_
SETTINGS
VOOSMP_PID_OUTPUT_CONTROL_
UPDATE_CONNECT_STATUS
VOOSMP_PID_SECOND_SURFACE
VOOSMP_PID_ANALYTICS_OBJEC
T
VOOSMP_PID_WRITEABLE_PATH
VOOSMP_PID_SUBTITLE_URL
VOOSMP_PID_SET_UI_MGR
VOOSMP_PID_CHECK_LICENSE_D
ISPLAY
VOOSMP_PID_AUDIO_VOLUME
VOOSMP_PID_FUNC_LIB
VOOSMP_PID_MAX_BUFFTIME
VOOSMP_PID_MIN_BUFFTIME
VOOSMP_PID_FUNC_DRM
VOOSMP_PID_AUDIO_REND_ADJU
ST_TIME
VOOSMP_PID_CPU_NUMBER
VOOSMP_PID_AUDIO_REND_BUFF
ER_TIME
VOOSMP_PID_AUDIO_DECODER_F
ILE_NAME
VOOSMP_PID_VIDEO_DECODER_F
ILE_NAME
VOOSMP_PID_PERFORMANCE_DAT
A
VOOSMP_PID_FUNC_READ_IO
VOOSMP_PID_AUDIO_STEP_BUFF



m.t.w.p.
TIME
VOOSMP_PID_AUDIO_SINK_BUFF
TIME
VOOSMP_PID_MFW_CFG_FILE
VOOSMP_PID_AUDIO_DECODER_A
PI_NAME
VOOSMP_PID_VIDEO_DECODER_A
PI_NAME
VOOSMP_PID_AUTHENTICATION_
INFO
VOOSMP_PID_SOURCE_FILENAME
VOOSMP_PID_LIB_NAME_PREFIX
VOOSMP_PID_LIB_NAME_SUFFIX
VOOSMP_PID_COMMAND_STRING
VOOSMP_PID_VIEW_ACTIVE
VOOSMP_PID_AUDIO_SINK
VOOSMP_PID_BITMAP_HANDLE
VOOSMP_PID_IOMX_PROBE
VOOSMP_PID_MEDIACODEC_AUDI
O_DECODER
VOOSMP_PID_CLEAR_VIDEO_ARE
A
VOOSMP_PID_SUBTITLE_TIME_O
FFSET
VOOSMP_PID_ANALYTICS_FUNCT
ION_SET
VOOSMP_PID_HDMI_DISPLAY
VOOSMP_PID_SUBTITLE_IN_ENG
INE
VOOSMP_PID_FIXEDSIZE_THRES
HOLD
VOOSMP_PID_AUDIO_MUTE
VOOSMP_PID_KEEP_ASPECT_RAT
IO
VOOSMP_PID_USING_API3
VOOMXAL_PID_AUDIO_STREAM_O
NOFF
VOOMXAL_PID_VIDEO_STREAM_O
AGOLUMIT ID AIDEO DIKEWI-O



NOFF
VOOSMP_PID_SENDBUFFERFUNC
VOOSMP_PID_AUDIO_FORMAT
VOOSMP_PID_VIDEO_FORMAT
VOOSMP_PID_BLUETOOTH_HANDS
ET
VOOSMP_SRC_PID_FUNC_READ_B
UF
VOOSMP_SRC_PID_INIT_PARAM_
ACTUAL_FILE_SIZE
VOOSMP_SRC_PID_INIT_PARAM_
INIT_LIBOP
VOOSMP_SRC_PID_INIT_PARAM_
IO_FILE_NAME
VOOSMP_SRC_PID_INIT_PARAM_
IO_API_NAME
VOOSMP_SRC_PID_INIT_PARAM_
DURATION
VOOSMP_SRC_PID_PEEK_MORE_B
UFFERS
VOOSMP_SRC_PID_TRACK_CHANG
ED
VOOSMP_SRC_PID_ANALYTICS_O
BJECT
VOOSMP_SRC_PID_OUTPUT_TS_S
AMPLE
VOOSMP_SRC_PID_FUNC_IO
VOOSMP_SRC_PID_CC_AUTO_SWI
TCH_DURATION
VOOSMP_SRC_PID_DRM_THIRDPA
RTY_FUNC_SET
VOOSMP_SRC_PID_DRM_CALLBAC
K_FUNC
VOOSMP_SRC_PID_COMMAND_STR
ING
VOOSMP_SRC_PID_DOWNLOAD_FA
IL_MAX_TOLERANT_COUNT
VOOSMP_SRC_PID_DRM_FUNC_SE



Т
VOOSMP_SRC_PID_SOURCE_MODU
LE_OBJECT
VOOSMP_SRC_PID_BA_WORKMODE
VOOSMP_SRC_PID_ANALYTICS_F
UNCTION_SET
SetSurfaceHolder
VOOSMP_SRC_PID_UTC_POSITIO
N



# **5** Event Callback IDs

Event callback IDs (sent to onVOEvent) have been updated for consistency and clarity in API V3. See Table 3 for the detailed information about callback ID updates. For more information about the new callback events in API V3, refer to the *API Reference Manual.zip* file.

Table 3: Detailed callback ID updates

API V2 callback ID	API V3 callback ID	Comment
VOOSMP_CB_Error	VO_OSMP_CB_ERROR	
VOOSMP_CB_PlayComplete	VO_OSMP_CB_PLAY_COMPLETE	
VOOSMP_CB_VideoStartBuff	VO_OSMP_CB_VIDEO_START_BUFFER	
VOOSMP_CB_VideoStopBuff	VO_OSMP_CB_VIDEO_STOP_BUFFER	
VOOSMP_CB_AudioStartBuff	VO_OSMP_CB_AUDIO_START_BUFFER	
VOOSMP_CB_AudioStopBuff	VO_OSMP_CB_AUDIO_STOP_BUFFER	
VOOSMP_CB_SourceBuffTime	VO_OSMP_CB_SRC_BUFFERING_TIME	
VOOSMP_CB_SeekComplete	VO_OSMP_CB_SEEK_COMPLETE	
VOOSMP_CB_VideoAspectRatio	VO_OSMP_CB_VIDEO_ASPECT_RATIO	
VOOSMP_CB_VideoSizeChanged	VO_OSMP_CB_VIDEO_SIZE_CHANGED	
VOOSMP_CB_CodecNotSupport	VO_OSMP_CB_CODEC_NOT_SUPPORT	
VOOSMP_CB_Deblock	VO_OSMP_CB_DEBLOCK	
VOOSMP_CB_MediaTypeChanged	VO_OSMP_SRC_CB_ADAPTIVE_STREAMING_I	
VOOSMP_Cb_Medialypechanged	NFO	
VOOSMP_CB_HWDecoderStatus	VO_OSMP_SRC_ADAPTIVE_STREAMING_INFO	
VOOSMP_Cb_HWDecoderstatus	_EVENT_MEDIATYPE_CHANGE	
VOOSMP_CB_AUTHENTICATION_RESPONSE	VO_OSMP_CB_HW_DECODER_STATUS	
VOOSMP_CB_LanguageInfoAvailable	VO_OSMP_CB_AUTHENTICATION_RESPONSE	
VOOSMP_CB_VideoRenderStart	VO_OSMP_CB_LANGUAGE_INFO_AVAILABLE	
VOOSMP_CB_OpenSource	VO_OSMP_CB_VIDEO_RENDER_START	
VOOSMP_CB_SEI_INFO	VO_OSMP_CB_SEI_INFO	
VOOSMP_CB_Audio_Render_Failed	VO_OSMP_CB_AUDIO_RENDER_FAIL	
VOOSMP_CB_PCM_OUTPUT	VO_OSMP_CB_PCM_OUTPUT	
VOOSMP_CB_LicenseFailed	VO_OSMP_CB_LICENSE_FAIL	
VOOSMP_CB_AudioRenderStart	VO_OSMP_CB_AUDIO_RENDER_START	
VOOSMP_CB_Block_Playback	VO_OSMP_CB_OUTPUT_CONTROL_BLOCK_PLA	
VOODMF_CD_BIOCK_FIAYDACK	YBACK	
VOOSMP_CB_Block_Output	VO_OSMP_CB_OUTPUT_CONTROL_BLOCK_OUT	



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VO_OSMP_AD_CB_STATE_CHANGE
VO_OSMP_AD_CB_PLAYBACKINFO
VO_OSMP_AD_CB_NO_AD_CONTENT
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VO_OSMP_AD_CB_VIDEO_NOT_AVAILABLE
VO_OSMP_AD_CB_DATA_LOAD_ERROR
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