



Vodafone Terminal Capability Reference

TCD_SIS_REF_002474_AAC_MP3_DRM_Overview_v2_2.pdf

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1 Constraints Guideline for Playback

1.1 Playback audio contents

The following figure indicates the constraints for playback audio contents according to the audio codecs and OMA DRM protection methods. If there is non compliance to this figure, it shall be highlighted in details.

Audio Contents for Playback in Media Player

MIME type	File Extension	Video Codec	Audio Codec	Non-DRM content	Forward Lock / Combined Delivery (Content-Type: application/vnd.oma)	OMA DRM contents		
						Separate Delivery (Content-Type: application/vnd.oma.drm.content, extension: .dcf)		
						No Limit	Time constraint	Count constraint
audio/amr	.amr	N/A	AMR-NB	Allowed	Allowed	Allowed	Allowed	Allowed
audio/3gpp	.3gp	N/A		Allowed	Allowed	Allowed	Allowed	Allowed
audio/mpeg	.mp3	N/A	ISO MPEG-1/2 Layer 3 (MP3)	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Allowed
audio/x-mpeg	.mp3	N/A		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Allowed
audio/3gpp	.3gp	N/A	MPEG-4 AAC	Allowed	Allowed	Allowed	Allowed	Allowed
audio/mp4	.mp4	N/A		Allowed	Allowed	Allowed	Allowed	Allowed
audio/3gpp	.3gp	N/A	MPEG-4 AAC+	Allowed	Allowed	Allowed	Allowed	Allowed
audio/mp4	.mp4	N/A		Allowed	Allowed	Allowed	Allowed	Allowed
audio/3gpp	.3gp	N/A	MPEG-4 AAC+ enhanced	Allowed	Allowed	Allowed	Allowed	Allowed
audio/mp4	.mp4	N/A		Allowed	Allowed	Allowed	Allowed	Allowed
application/vnd.rn-realmedia	.rm	N/A	Real Audio v8	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Allowed
Other audio contents	-	N/A	Other audio	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Allowed

Allowed: The terminal shall enable users to play audio content using Media Player.

Forbidden: The terminal shall NOT enable users to play audio content using Media Player.

1.2 Playback video contents

The following figure indicates the constraints for playback video contents. These video contents shall be constrained by the audio codecs and OMA DRM protection methods, not video codecs. If there is non compliance to this figure, it shall be highlighted in details.

Video Contents for Playback in Media Player

MIME type	File Extension	Video Codec	Audio Codec	Non-DRM content	Forward Lock / Combined Delivery (Content-Type: application/vnd.oma)	OMA DRM contents		
						Separate Delivery (Content-Type: application/vnd.oma.drm.content, extension: .dcf)		
						No Limit	Time constraint	Count constraint
video/3gpp	.3gp	ANY	AMR-NB	Allowed	Allowed	Allowed	Allowed	Allowed
video/3gpp	.3gp	ANY	MPEG-4 AAC	Allowed	Allowed	Allowed	Allowed	Allowed
video/mp4	.mp4	ANY		Allowed	Allowed	Allowed	Allowed	Allowed
video/3gpp	.3gp	ANY	MPEG-4 AAC+	Allowed	Allowed	Allowed	Allowed	Allowed
video/mp4	.mp4	ANY		Allowed	Allowed	Allowed	Allowed	Allowed
video/3gpp	.3gp	ANY	MPEG-4 AAC+ enhanced	Allowed	Allowed	Allowed	Allowed	Allowed
video/mp4	.mp4	ANY		Allowed	Allowed	Allowed	Allowed	Allowed
application/x-pn-realmedia	.rm	ANY	Real Video v8	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Allowed
Other video contents	-	ANY	Other audio	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Allowed

Allowed: The terminal shall enable users to play video content using Media Player.

Forbidden: The terminal shall NOT enable users to play video content using Media Player.

2 Constraints Guideline for Ringtone

2.1 Set audio contents as ringtone

The following figure indicates the constraints for setting audio contents as ringtone according to the audio codecs and OMA DRM protection methods. If there is non compliance to this figure, it shall be highlighted in details.

Audio Contents for Ring Tone

MIME type	File Extension	Video Codec	Codec	Non-DRM content	OMA DRM contents			
					Forward Lock (Content-Type: application/vnd.oma. drm.message, extension: .dm)	Separate Delivery (Content-Type: application/vnd.oma.drm.content, extension: .dcf)		
						No Limit	Time constraint	Count constraint
audio/amr	.amr	N/A	AMR-NB	Allowed	Allowed	Allowed	Allowed	Forbidden
audio/3gpp	.3gp	N/A	ISO MPEG-1/2 Layer 3 (MP3)	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
audio/mpeg	.mp3	N/A		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
audio/3gpp	.3gp	N/A	MPEG-4 AAC	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
audio/mp4	.mp4	N/A		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
audio/3gpp	.3gp	N/A	MPEG-4 AAC+	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
audio/mp4	.mp4	N/A		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
audio/3gpp	.3gp	N/A	MPEG-4 AAC+ enhanced	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
audio/mp4	.mp4	N/A		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
Other audio contents	–	N/A	Other audio	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden

Allowed: The terminal shall enable users to set this content as ringtone(incoming call, incoming message, alarm)

Forbidden: The terminal shall NOT enable users to set this content as ringtone(incoming call, incoming message, alarm)

2.2 Set video contents as video ringtone

The following figure indicates the constraints for setting video contents as video ringtone. These video contents shall be constrained by the audio codecs and OMA DRM protection methods, not video codecs. If there is non compliance to this figure, it shall be highlighted in details.

Video Contents for Ring Tone

MIME type	File Extension	Video Codec	Codec	Non-DRM content	OMA DRM contents			
					Forward Lock (Content-Type: application/vnd.oma. drm.message, extension: .dm)	Separate Delivery (Content-Type: application/vnd.oma.drm.content, extension: .dcf)		
						No Limit	Time constraint	Count constraint
video/3gpp	.amr	ANY	AMR-NB	Allowed	Allowed	Allowed	Allowed	Forbidden
video/3gpp	.3gp	ANY	MPEG-4 AAC	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
video/mp4	.mp4	ANY		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
video/3gpp	.3gp	ANY	MPEG-4 AAC+	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
video/mp4	.mp4	ANY		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
video/3gpp	.3gp	ANY	MPEG-4 AAC+ enhanced	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
video/mp4	.mp4	ANY		Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden
Other video contents	–	ANY	Other audio	Europe: Allowed Japan: Forbidden	Europe: Allowed Japan: Forbidden	Allowed	Allowed	Forbidden

Allowed: The terminal shall enable users to set this content as video ringtone(incoming call, incoming message, alarm)

Forbidden: The terminal shall NOT enable users to set this content as video ringtone(incoming call, incoming message, alarm)