

RN00202

i.MX Android Extended Codec Release Notes

Rev. android-16.0.0_1.0.0 — 28 October 2025

Release notes

Document information

Information	Content
Keywords	Android, i.MX, android-16.0.0_1.0.0
Abstract	The features described in the release notes are NXP extended media formats and codecs based on Android native media framework.



1 Release Description

The features described in the release notes are NXP extended media formats and codecs based on Android native media framework.

Only codecs that have no license restriction are included in the standard release package.

Codecs that have license restriction are provided in separate packages. For more details, see [Section 6](#).

2 Supported Hardware SoCs/Boards

- i.MX 8M Mini EVK
- i.MX 8M Nano EVK
- i.MX 8M Plus EVK
- i.MX 8M Quad EVK
- i.MX 8ULP EVK
- i.MX 8QuadMax MEK
- i.MX 8QuadXPlus MEK
- i.MX 95 EVK

3 What's New

- Enhanced stability and robustness.

4 Enhanced Features

4.1 Local playback

This section describes the local playback information.

4.1.1 Enhanced and extended formats and codecs

The following table provides the information about the enhanced codecs.

Table 1. Enhanced codecs

File extension	Demuxers	Video decoders	Audio decoders
.mp3	-	-	MP3
.aac/.adts	-	-	AAC LC/PLUS
.wav	-	-	LPCM
.flac	-	-	FLAC
.amr/.awb	-	-	AMR-NB/AMR-WB
.mp4 .mov	MP4	MPEG4 SP/ASP except GMC H.264 BP/MP/HP MPEG2 H.263 MJPEG HEVC	AAC LC/PLUS MP3 Vorbis PCM
.m4a	MP4	-	AAC LC/PLUS

Table 1. Enhanced codecs...continued

File extension	Demuxers	Video decoders	Audio decoders
.3gp	MP4	MPEG4 SP/ASP except GMC H.264 BP/MP/HP H.263 HEVC	AAC LC/PLUS AMR-NB AMR-WB
.avi	AVI	MPEG4 SP/ASP except GMC Xvid H.264 BP/MP/HP H.263 MJPEG HEVC	AAC LC/PLUS MP3 LPCM
.wma	ASF	-	WMA STD, PRO, Lossless
.wmv/.asf	ASF	VC-1 SP/MP/AP HEVC	WMA STD, PRO, Lossless
.mkv/.mka	MKV	H.264 BP/MP/HP MPEG4 SP/ASP except GMC Xvid VC-1 SP/MP/AP HEVC VP8 VP9 MPEG2 H.263	AAC MP3 WMA STD, PRO, Lossless Vorbis Opus PCM
.flv	FLV	Sorenson H.263 H.264 BP/MP/HP	MP3 AAC
.mpg	MPEG2/PS	MPEG2 BP/MP	MP3
.vob	MPEG2/TS	MPEG2 BP/MP	AAC
.ts		H.264 BP/MP/HP	LPCM
.m2ts		HEVC	
.webm	MKV	VP8 VP9	MP3 AAC LC/PLUS
.rmvb	RM	RV 8/9/10	RA
.rm	RM	RV 8/9/10	AAC
.ra	RM	-	RA

Note:

- For detailed video and audio codec capability, see [Section 5](#).
- ASF, WMV, WMA, and RMVB are restricted codec packages and are not generally available. Install them from the Restricted Codec Package.
- MJPEG subtypes and MJPEG_2000 and MJPEG_B are not supported.
- MJPEG only supports YUV420 and YUV422 (horizontal) color formats.

4.2 Streaming playback

The following table provides the information about streaming playback.

Table 2. Feature matrix for streaming playback

Protocol	File format
HTTP	.mp4/.3gp/.mov .flv/.f4v .avi .wmv/.asf .mpg/.vob/.ts .mp3 .aac .wma .mkv
RTP	.ts
UDP	.ts

To set up RTP/UDP streaming, perform the following operations:

- Install vlc 1.1.5 on Windows OS or Ubuntu.
- For UDP streaming server, run VLC with the following command:

```
vlc -vvv stream_file_name --sout udp://:1234
```

- For the RTP streaming server:
 1. Start VLC with the GUI, and select **Media > Streaming**.
 2. Press **Add** to load the stream file, press **Stream**, and click **Next**.
 3. Select **RTP/Mpeg Transport Stream** from the drop-down list, and click **Add**.
 4. Enter your board IP address (such as 10.193.101.11) and base port number 5004, and deselect **Activate Transcoding**.
 5. Press **Stream** at the bottom. The server is started.

- For the UDP streaming client, run the Gallery on the Android platform with the following command:

```
am start -n com.android.gallery3d/com.android.gallery3d.app.MovieActivity -d udp://:1234
```

- For the RTP streaming client, run Gallery on the Android platform with the following command:

```
am start -n com.android.gallery3d/com.android.gallery3d.app.MovieActivity -d rtp://:5004
```

- For the uni-cast, use the client IP address when starting the server, and use the server IP address when starting the client.

4.3 Audio pass through streaming

Audio pass through supports audio AC-3 and DD-plus. To enable audio pass through, run the following command to set the property:

```
setprop vendor.persist.audio.pass.through 2000
```

5 Codec Specification

5.1 Video decoder for i.MX with VPU hardware

Table 3. Video decoder for i.MX with VPU hardware

	Format	Platform	Profile	Max. Bit Rate	Min. Resolution	Max. Resolution	Frame Rate	Portrait Mode	Comment	
Video Decoder	HEVC	i.MX 8M Quad	main/main 10	160 Mbps	144 x 144	4096 x 2304	60 fps (3840 x 2160)	Y	-	
		i.MX 8M Plus i.MX 8M Mini	main/main 10	100 Mbps	144 x 144	1920 x 1080	60 fps (1920 x 1080)	Y	-	
		i.MX 8 Quad XPlus	main	100 Mbps	144 x 144	4096 x 2160	30 fps (3840 x 2160)	Y	-	
		i.MX 8 QuadMax	main	100 Mbps	144 x 144	4096 x 2160	60 fps (3840 x 2160)	Y	-	
		i.MX 95	main	160 Mbps	64x64	4096 x 2304	60 fps (3840 x 2160)	Y	-	
	H.264	i.MX 8M Quad	HP/MP/BP	HP/MP/BP	60 Mbps	48 x 48	4096 x 2304	30 fps (3840 x 2160)	Y	-
		i.MX 8M Plus i.MX 8M Mini	HP/MP/BP	HP/MP/BP	60 Mbps	48 x 48	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	HP/MP/BP	HP/MP/BP	50 Mbps	64 x 64	4096 x 2160	30 fps (3840 x 2160)	Y	-
		i.MX 6	HP/MP/BP	HP/MP/BP	50 Mbps	64 x 64	1920 x 1080	60 fps (1920 x 1080)	N	-
		i.MX 95	HP/MP/BP	HP/MP/BP	160 Mbps	64 x 64	4096 x 2304	60 fps (3840 x 2160)	Y	-
VP9	i.MX 8M Quad	profile 0, 2	profile 0, 2	100 Mbps	144 x 144	4096 x 2304	60 fps (3840 x 2160)	N	-	
	i.MX 8M Plus i.MX 8M Mini	profile 0, 2	profile 0, 2	100 Mbps	144 x 144	1920 x 1080	60 fps (1920 x 1080)	Y	-	

Table 3. Video decoder for i.MX with VPU hardware...continued

	Format	Platform	Profile	Max. Bit Rate	Min. Resolution	Max. Resolution	Frame Rate	Portrait Mode	Comment
	VP8	i.MX 8M Quad	-	60 Mbps	48 x 48	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8M Plus i.MX 8M Mini	-	60 Mbps	48 x 48	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	-	60 Mbps	64 x 64	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 6Quad	-	20 Mbps	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
		i.MX 6Dual Lite	-	20 Mbps	64 x 64	1280 x 720	30 fps (1280 x 720)	N	-
	MPEG4/ XVID	i.MX 8M Quad	SP/ASP	-	48 x 48	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	SP/ASP	-	64 x 64	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 6	SP/ASP	40 Mbps	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
	MPEG2	i.MX 8M Quad	MP	-	48 x 48	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	MP	-	64 x 64	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 6	MP	50 Mbps	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
	H.263	i.MX 8M Quad	P0/P3	-	48 x 48	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8 Quad XPlus	P0/P3	-	64 x 64	1920 x 1080	60 fps (1920 x 1080)	Y	-

Table 3. Video decoder for i.MX with VPU hardware...continued

	Format	Platform	Profile	Max. Bit Rate	Min. Resolution	Max. Resolution	Frame Rate	Portrait Mode	Comment
		i.MX 8 QuadMax							
		i.MX 6	P0/P3	20 Mbps	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
	WMV9/VC1	i.MX 8M Quad	AP/MP/SP	-	48 x 48	1920 x 1080	60 fps (1920 x 1080)	N	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	AP/MP/SP		64 x 64	1920 x 1080	60 fps (1920 x 1080)	N	-
		i.MX 6	AP/MP/SP	45 Mbps	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
	MJPEG	i.MX 8M Quad	-	180 Mpixl	48 x 48	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	-	-	64 x 64	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 6	-	120 Mpixl	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
		i.MX 95	-	-	64 x 64	4096 x 2160	60 fps (3840 x 2160)	Y	-
	RV	i.MX 8M Quad	8/9/10	-	48 x 48	1920 x 1080	60 fps (1920 x 1080)	N	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	8/9/10	-	64 x 64	1920 x 1080	60 fps (1920 x 1080)	N	-
		i.MX 6	8/9/10	40 Mbps	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
	Sorenson Spark	i.MX 8 Quad XPlus i.MX 8 QuadMax	-	-	64 x 64	1920 x 1080	60 fps (1920 x 1080)	Y	-

Table 3. Video decoder for i.MX with VPU hardware...continued

	Format	Platform	Profile	Max. Bit Rate	Min. Resolution	Max. Resolution	Frame Rate	Portrait Mode	Comment
Video Encoder	H.265	i.MX 8M Plus	main/main 10		136 x 136	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 95	main	160 Mbps	256 x 128	4096 x 2304	60 fps (3840 x 2160)	N	-
	H.264	i.MX 8M Mini	HP/MP/BP	40 Mbps	144 x 96	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8M Plus	HP/MP/BP	40 Mbps	144 x 144	1920 x 1080	60 fps (1920 x 1080)	Y	-
		i.MX 8 Quad XPlus i.MX 8 QuadMax	HP/MP/BP	-	64 x 64	1920 x 1080	30 fps (1920 x 1080)	Y	-
		i.MX 6	BP	20 Mbps	64 x 64	1920 x 1080	30 fps (1920 x 1080)	N	-
		i.MX 95	HP/MP/BP	160 Mbps	256 x 128	4096 x 2304	60 fps (3840 x 2160)	N	-
		VP8	i.MX 8M Mini	-	60 Mbps	144 x 96	1920 x 1080	30 fps (1920 x 1080)	Y
	MPEG4	i.MX 6	SP	12 Mbps	64 x 64	1280 x 720	30 fps (1920 x 1080)	N	-
	H.263	i.MX 6	P3	8 Mbps	64 x 64	1280 x 720	30 fps (1920 x 1080)	N	-
Software Video Decoder		i.MX all		According to system performance	-	According to system performance	According to system performance	According to system performance	Supported with Android Native decoders

Note:

- Please find supported formats based on each platform.
- RealVideo format is supported again on i.MX 8QuadXPlus and 8QuadMax.

5.2 Video encoder for i.MX with VPU hardware

Table 4. Video encoder for i.MX with VPU hardware

	Format	Platform	Profile	Min. Resolution	Max. Resolution	Frame Rate	Bit Rate	Comment
Video Encoder	H.265	i.MX 8M Plus	main/main 10	64 x 64	1920 x 1080	60 fps	-	-
		i.MX 95	main	256 x 128	4096 x 2304	60 fps	-	-
	H.264	i.MX 8M Mini i.MX 8M Plus	HP/MP/BP	132 x 96	1920 x 1080	60 fps	40 Mbps	-
			i.MX 8Quad XPlus	HP/MP/BP	64 x 64	1920 x 1080	30 fps	-
		i.MX 8Quad Max	HP/MP/BP	64 x 64	1920 x 1080	30 fps	-	-
		i.MX 6	BP	64 x 64	1920 x 1080	30 fps	20 Mbps	-
		i.MX 95	HP/MP/BP	256 x 128	4096 x 2304	60 fps	20 Mbps	-
		VP8	i.MX 8M Mini	-	132 x 96	1920 x 1080	30 fps	60 Mbps
	MPEG4	i.MX 6	SP	64 x 64	1280 x 720	30 fps	12 Mbps	-
	H.263	i.MX 6	P3	64 x 64	1280 x 720	30 fps	8 Mbps	-

5.3 Audio decoder

Table 5. Audio decoder

	Platform	Feature/ Profile	Feature/ Profile	Channel	Sample rate (kHz)	Bit rate (kbps)	Comment
DSP Audio Decoder	i.MX 8M Plus i.MX 8Quad XPlus i.MX 8Quad Max	MP3	MPEG-1 (Layer-1/ Layer-2/ Layer-3)	stereo/mono	<= 48	32-448	-
			MPEG-2 (Layer-1/ Layer-2/ Layer-3)		<= 24	8-256	-
			MPEG-2.5 (Layer-3)		<= 12	8-160	-
Software Audio Decoder	i.MX All	MP3	MPEG-1 (Layer-1/ Layer-2/ Layer-3) MPEG-2 (Layer-1/ Layer-2/ Layer-3) MPEG-2.5 (Layer-3)	stereo/mono	8-448	8-448	-

Table 5. Audio decoder...continued

	Platform	Feature/ Profile	Feature/ Profile	Channel	Sample rate (kHz)	Bit rate (kbps)	Comment
		AACL	MPEG-2 AACLC MPEG-4 AACLC	<=5.1	8-96	8-368	Use the default AAC decoder of the Android OS.
		HE-AAC	HE-AAC V1 HE-AAC V2	stereo/mono	8-96	Mono: 8-384 stereo: 16-768	Use the default AAC decoder of the Android OS.
		WMA STD	L1 @ QL1	stereo/mono	44.1	64-161	-
	L2 @ QL1		<= 48		<= 161	-	
	L3 @ QL1		<= 48		<= 385	-	
		WMA Pro	M0a @ QL2	stereo/mono	<= 48	48-192	-
			M0b @ QL2	stereo/mono	<= 48	<= 192	-
			M1 @ QL2	<= 5.1	<= 48	<= 384	-
			M2 @ QL2	<= 5.1	<= 96	<= 768	-
			WMA Pro	<= 7.1	<= 96	<= 1500	-
		WMA Lossless	N1	stereo/mono	<= 48	<= 3000	-
			N2	<=5.1	<= 96	<= 3000	-
			N3	<=7.1	<= 96	<= 3000	-
		RA	cook	stereo/mono	8, 11.025, 22.05, 44.1	-	-

5.4 Audio encoder

Use Android OS default audio encoders.

6 License-Restricted Codecs

For information about receiving the restricted codec packages, contact an NXP representative.

6.1 Package list

The following features are supplementary to standard codec release packages.

Table 6. License limited codecs

Package name	Feature
fsl_ms_codec.tar.gz	<ul style="list-style-type: none"> Demuxer: ASF Video Decoder: WMV Audio Codec: WMA
fsl_real_dec.tar.gz	<ul style="list-style-type: none"> Demuxer: RM Audio Decoder: RA

Table 6. License limited codecs...continued

Package name	Feature
imx_dsp.tar.gz	Audio hardware codec: Hi-Fi firmware
imx_dsp_codec.tar.gz	Audio hardware codec: MP3

6.2 How to install the license limited codecs

See the readme file for each package.

7 Limitations of This Release

- Complex Profile of WMV9 is not supported
- Multimedia files that do not have index table may not be searchable
- Corrupted multimedia files may not be searchable and may have an incorrect duration

8 Known Issues

None.

9 Note About the Source Code in the Document

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10 Revision History

Revision history

Document ID	Release date	Description
RN00202 v.android-16.0.0_1.0.0	28 October 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, and i.MX 95 Beta release.
RN00202 v.android-15.0.0_2.0.0	24 July 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, i.MX 95 19x19 EVK Beta release, and i.MX 95 15x15 EVK Alpha release.
RN00202 v.android-15.0.0_1.2.0	11 April 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, i.MX 95 Beta release.
RN00202 v.android-15.0.0_1.0.0	24 January 2025	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, i.MX 95 Beta release.
RN00202 v.android-14.0.0_2.2.0	18 October 2024	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, i.MX 95 (A1 15x15) Alpha release, and i.MX 95 (A1 19x19) Beta release.
RN00202 v.android-14.0.0_2.0.0	9 August 2024	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8ULP, i.MX 8QuadMax, i.MX 8QuadXPlus GA release, and i.MX 95 Alpha release. Updated the document ID.
IMXACRN v.android-14.0.0_1.2.0	19 April 2024	i.MX 8ULP EVK, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8Quad XPlus GA release.
IMXACRN v.android-14.0.0_1.0.0	6 February 2024	i.MX 8ULP EVK, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8Quad XPlus GA release.
IMXACRN v.android-13.0.0_2.2.0	24 October 2023	i.MX 8ULP EVK, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8Quad XPlus GA release.
IMXACRN v.android-13.0.0_2.2.0	07/2023	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
IMXACRN v.android-13.0.0_1.2.0	03/2023	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
IMXACRN v.android-13.0.0_1.0.0	01/2023	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
IMXACRN v.android-12.1.0_1.0.0	10/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
IMXACRN v.android-12.0.0_2.0.0	07/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.

Revision history...continued

Document ID	Release date	Description
IMXACRN v.android-12.0.0_1.0.0	03/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
IMXACRN v.android-11.0.0_2.6.0	01/2022	i.MX 8ULP EVK Beta release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
IMXACRN v.android-11.0.0_2.4.0	10/2021	i.MX 8ULP EVK Alpha release, i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
IMXACRN v.android-11.0.0_2.2.0	07/2021	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
IMXACRN v.android-11.0.0_1.2.1	06/2021	i.MX 8M Plus EVK GA release.
IMXACRN v.android-11.0.0_2.0.0	04/2021	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Plus, and i.MX 8M Quad GA release.
IMXACRN v.android-11.0.0_1.2.0	03/2021	i.MX 8M Plus EVK GA release.
IMXACRN v.android-11.0.0_1.1.0-AUTO	01/2021	i.MX 8QuadXPlus/8QuadMax MEK GA release
IMXACRN v.android-11.0.0_1.0.0	12/2020	i.MX 8M Plus EVK Beta release, and all the other i.MX 8 GA release.
IMXACRN v.android-10.0.0_2.3.0	07/2020	i.MX 8M Plus EVK Beta1 release, and all the other i.MX 8 GA release.
IMXACRN v.android-10.0.0_2.0.0	05/2020	i.MX 8M Mini, i.MX 8M Nano, i.MX 8M Quad, i.MX 8Quad Max, and i.MX 8QuadXPlus GA release.
IMXACRN v.android-10.0.0_2.1.0	04/2020	i.MX 8M Plus Alpha and i.MX 8QuadXPlus Beta release.
IMXACRN v.android-10.0.0_1.0.0	03/2020	Deleted the Android 10 image.
IMXACRN v.android-10.0.0_1.0.0	02/2020	i.MX 8M Mini, i.MX 8M Quad, i.MX 8QuadMax, and i.MX 8QuadXPlus GA release.
IMXACRN v.P9.0.0_2.0.0-ga	08/2019	Updated the location of the SCFW porting kit.
IMXACRN v.P9.0.0_2.0.0-ga	04/2019	i.MX 8M, i.MX 8QuadMax, i.MX 8QuadXPlus GA release.
IMXACRN v.P9.0.0_1.0.0-ga	01/2019	i.MX 8M, i.MX 8QuadMax, i.MX 8QuadXPlus GA release.
IMXACRN v.P9.0.0_1.0.0-beta	11/2018	Initial release

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