RN00202

i.MX Android Extended Codec Release Notes

Rev. android-15.0.0_2.0.0 — 24 July 2025

Release notes

Document information

| Information | Content |
|-------------|--|
| Keywords | Android, i.MX, android-15.0.0_2.0.0 |
| Abstract | The features described in the release notes are NXP extended media formats and codecs based on Android native media framework. |



i.MX Android Extended Codec Release Notes

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 | MP4 | MPEG4 SP/ASP except GMC | AAC LC/PLUS |
| .mov | | H.264 BP/MP/HP | MP3 |
| | | MPEG2 | Vorbis |
| | | H.263 | PCM |
| | | MJPEG | |
| | | HEVC | |
| .m4a | MP4 | - | AAC LC/PLUS |

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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 .ts .m2ts | MPEG2/TS | MPEG2 BP/MP H.264 BP/MP/HP HEVC | AAC LPCM |
| .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 <u>Section 5</u>.
- 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.

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Table 2. Feature matrix for streaming playback

| Protocol | File format |
|----------|----------------|
| НТТР | .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

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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 | 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 | 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 | 50 Mbps | 64 x 64 | 4096 x 2160 | 30 fps (3840 x 2160) | Y | - |
| | | i.MX 6 | HP/MP/BP | 50 Mbps | 64 x 64 | 1920 x 1080 | 60 fps (1920 x 1080) | N | - |
| | | i.MX 95 | 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 | 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 | 100 Mbps | 144 x 144 | 1920 x 1080 | 60 fps (1920 x 1080) | Y | - |

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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 | - |

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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 | - |

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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 | | 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 peformance | - | According to system peformance | According to system peformance | According to system peformance | 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.

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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 | ВР | 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 | | MP3 | MPEG-1 (Layer-1/ Layer-2/ Layer-3) | stereo/mono | <= 48 | 32-448 | - |
| | Max | | 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-3) MPEG-2 (Layer-1/ Layer-2/ Layer-3) MPEG-2.5 (Layer-3) | stereo/mono | 8-448 | 8-448 | - |

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Table 5. Audio decoder...continued

| Platform | Feature/ Profile | Feature/ Profile | Channel | Sample rate (kHz) | Bit rate (kbps) | Comment |
|----------|---------------------|------------------------------------|-------------|----------------------------|-----------------------------------|--|
| | AACLC | 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 | N1 | stereo/mono | <= 48 | <= 3000 | - |
| | Lossless | 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 | | | | |
|--------------|--|--|--|--|--|
| | Demuxer: ASF Video Decoder: WMV Audio Codec: WMA | | | | |
| | Demuxer: RM Audio Decoder: RA | | | | |

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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-15.0.0_2.0.0 | , | 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, |

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Revision history...continued

| Document ID | Release date | Description |
|--------------------------------|-----------------|--|
| | | 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 Feburary 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 8 QuadXPlus 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 8 QuadXPlus 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 8 QuadXPlus 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 8 QuadXPlus 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. |
| 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. |

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Revision history...continued

| Document ID | Release date | Description |
|---|--------------|--|
| 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 8 QuadXPlus 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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