

Build Targets

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Release Note: This document can be shared with customers.

Android Build Targets

This document describes the available build targets, and a brief description of each. The following table describes the Google reference design, and the chipset that is based on.

| Google Device | Chipset | Broadcom Reference Board Hardware |
|---------------|-----------|-----------------------------------|
| avko | 7252S | BCM7252SSFFG, BCM7252SSFFDR4* |
| banff | 7251S | BCM7251SSFFDR4 |
| cypress | 7271(B0) | BCM7271T |
| dawson | 7268(B0) | BCM7268USFF4AL |
| elfin | 72604(A0) | BCM72604USFF |
| fundy | 7278(BX) | BCM7278IPA |
| grouse | 72604(B0) | BCM72604BUSFF |

* requires using "avkodr4" device profile

AVKO (7252S)

| Target | RTS Box Mode* | Full Treble Support | A/B Update Support | Description |
|----------|---------------|---------------------|--------------------|---|
| avko | 5 | No | No | Official reference target for "avko". |
| avko_nvi | 5 | No | No | nvi', also known as non-vendor-image, is Identical to 'avko', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact. |
| avkodr4 | 5 | No | No | DDR4 variant of "avko", requires 7252SFFDR4 hardware. |

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|-----------|---|----|----|---|
| aosp_avko | 5 | No | No | aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot. |
|-----------|---|----|----|---|

BANFF (7251S)

| Target | RTS Box Mode* | Full Treble Support | A/B Update Support | Description |
|------------|---------------|---------------------|--------------------|--|
| banff | 1 | No | No | Official reference target for "banff". |
| banff_nvi | 1 | No | No | nvi', also known as non-vendor-image, is Identical to 'banff', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact. |
| aosp_banff | 1 | No | No | aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot. |

CYPRESS (7271)

| Target | RTS Box Mode* | Full Treble Support | A/B Update Support | Description |
|---------------|---------------|---------------------|--------------------|--|
| cypress | 5 | Yes | Yes | Official reference target for "cypress". |
| cypress_nab | 5 | Yes | No | "cypress" equivalent without A/B mode support (single slot, recovery mode OTA). |
| cypress_3gb | 5 | Yes | No | Experimental. "cypress" profile for 3GB EMMC Memory Layout. Cannot support DTU. |
| cypress_ms12d | 5 | Yes | No | "cypress" device with MS12D feature support. |
| cypress_nvi | 5 | No | No | nvi', also known as non-vendor-image, is Identical to 'cypress', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact. |
| cypressd | 6 | Yes | Yes | Multi decode and MS12 support |

| | | | | |
|--------------|---|-----|-----|---|
| cypress | 6 | Yes | Yes | Experimental / Do not use. "cypress" device with ARM trustzone support. |
| aosp_cypress | 5 | No | No | aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot. |

DAWSON (7268)

| Target | RTS Box Mode* | Full Treble Support | A B Update Support | Description |
|-------------|---------------|---------------------|--------------------|---|
| dawson | 5 | Yes | Yes | Official reference target for "dawson". |
| dawson_nab | 5 | Yes | No | "dawson" equivalent without A B mode support (single slot, recovery mode OTA). |
| dawson_nvi | 5 | No | No | nvi', also known as non-vendor-image, is Identical to 'dawson', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact. |
| aosp_dawson | 5 | No | No | aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot. |

ELFIN (72604A0)

| Target | RTS Box Mode* | Full Treble Support | A B Update Support | Description |
|-------------|---------------|---------------------|--------------------|--|
| elfin | 5 | Yes | Yes | Official reference target for "elfin". |
| elfin_nab | 5 | Yes | No | "elfin" equivalent without A B mode support (single slot, recovery mode OTA). |
| elfin_nvi | 5 | No | No | nvi', also known as non-vendor-image, is Identical to 'elfin', except that there is no vendor partition, and the vendor directory is a part of the system image. This target is intended for customers that upgraded from older Android release (e.g. N-MR1) that prefer to keep the gpt intact. |
| elfin_ms10 | 5 | Yes | Yes | "elfin" device with MS10 support. |
| elfin_ms11 | 5 | Yes | Yes | "elfin" device with MS11 support. |
| elfin_ms12d | 5 | Yes | Yes | "elfin" device with MS12D support. Netflix certification target. |

| | | | | |
|----------------|---|-----|-----|--|
| elfin_mini | 5 | Yes | Yes | Experimental / Do not use. 1.5GB memory. 4k max decode / 1080p graphics. Requires a custom bootloader. |
| elfin_hd | 5 | Yes | Yes | Experimental / Do not use. 1GB memory. 1080p60 max decode / 720p graphics. Requires a custom bootloader. |
| elfin_fhd | 5 | Yes | Yes | Experimental / Do not use. 1GB memory. 1080p60 max decode / 1080p graphics. Requires a custom bootloader. |
| elfin_msd | 5 | Yes | Yes | Experimental / Do not use. "elfin" device with MSD HAL integration. Requires MSD HAL delivery from Dolby. |
| elfin_dd | 5 | Yes | Yes | Experimental / Do not use. "elfin" device with dual-decoder support. |
| elfin_dd_ms12d | 5 | Yes | Yes | Experimental / Do not use. "elfin" device with dual-decoder and MS12D support. |
| elfink64 | 5 | Yes | Yes | Experimental: kernel 64-bit, android 32-bit support. Do not use. |
| aosp_elfin | 5 | No | No | aosp' variant required by Google. This build does not include launcher, so Android would stay on boot animation after boot |

FUNDY (7278)

| Target | RTS Box Mode* | Full Treble Support | A B Update Support | Description |
|--------|---------------|---------------------|--------------------|--|
| fundy | 2 | Yes | Yes | Official reference target for "fundy". |

GROUSE (72604B0)

| Target | RTS Box Mode* | Full Treble Support | A/B Update Support | Description |
|-----------------|---------------|---------------------|--------------------|---|
| grouse | 5 | Yes | Yes | Official reference target for "grouse". |
| grousepck | 5 | Yes | Yes | "grouse" build for BCM972604PCK reference design |
| grouse_dd | 5 | Yes | Yes | Experimental / Do not use. "grouse" device with dual-decoder support. |
| grouse_dd_ms12d | 5 | Yes | Yes | Experimental / Do not use. "grouse" device with dual-decoder and MS12D support. |
| grouse_ms12d | 5 | Yes | Yes | "grouse" device with MS12D support |

*: RTS box mode is defaulted to 0 in bolt, which may or may not be equal to the value listed here. However, the RTS box mode value will get override to export B_REFSW_BOXMODE with the listed value on Linux during boot. Please see init.rts.rc.