

Factory Images for Nexus and Pixel Devices

This page contains binary image files that allow you to restore your Nexus or Pixel device's original factory firmware. You will find these files useful if you have flashed custom builds on your device, and wish to return your device to its factory state.

Note that it's typically easier and safer to sideload the [full OTA image](https://developers.google.com/android/ota) (<https://developers.google.com/android/ota>) instead.

If you do use a factory image, please make sure that you re-lock your bootloader when the process is complete.

These files are for use only on your personal Nexus or Pixel devices and may not be disassembled, decompiled, reverse engineered, modified or redistributed by you or used in any way except as specifically set forth in the license terms that came with your device.

Terms and conditions

Warning: Installing a factory image will erase all data from the device, and unlocking the bootloader will make your device less secure. In most cases it should be possible to sideload the [full OTA image](https://developers.google.com/android/ota) (<https://developers.google.com/android/ota>) instead. This does not require a data wipe, and does not require the bootloader to be unlocked.

While it may be possible to restore certain data backed up to your Google Account, apps and their associated data will be uninstalled. Before proceeding, please ensure that data you would like to retain is [backed up to your Google Account](https://support.google.com/nexus/answer/2819582#backup) (<https://support.google.com/nexus/answer/2819582#backup>).

Downloading of the system image and use of the device software is subject to the [Google Terms of Service](https://www.google.com/intl/en/policies/terms/) (<https://www.google.com/intl/en/policies/terms/>). By continuing, you agree to the [Google Terms of Service](https://www.google.com/intl/en/policies/terms/) (<https://www.google.com/intl/en/policies/terms/>) and [Privacy Policy](https://www.google.com/intl/en/policies/privacy/) (<https://www.google.com/intl/en/policies/privacy/>). Your downloading of the system image and use of the device software may also be subject to certain third-party terms of service, which can be found in **Settings > About phone > Legal information**, or as otherwise provided.

Flashing instructions

The factory image downloaded from this page includes a script that flashes the device, typically named `flash-all.sh` (On Windows systems, use `flash-all.bat` instead).

Warning: To flash a device using one of the system images below (or one of your own), you also need the latest **fastboot** tool. You can get it from the **Android SDK Platform-Tools** package, which you can [download here](https://developer.android.com/studio/releases/platform-tools.html) (<https://developer.android.com/studio/releases/platform-tools.html>).

Once you have the `fastboot` tool, add it to your `PATH` environment variable (the `flash-all` script below must be able to find it).

Also be certain that you've set up USB access for your device, as described in [Run Apps on a Hardware Device](https://developer.android.com/studio/run/device.html) (<https://developer.android.com/studio/run/device.html>).

Caution: Flashing a new system image deletes all user data. Be certain to first backup any personal data such as photos.

To flash a system image:

1. Download the appropriate system image for your device below, then unzip it to a safe directory.
2. Connect your device to your computer over USB.
3. Start the device in fastboot mode with one of the following methods:

- Using the [adb tool](http://developer.android.com/tools/help/adb.html) (<http://developer.android.com/tools/help/adb.html>): With the device powered on, execute:

```
adb reboot bootloader
```



- Using a key combo: Turn the device off, then turn it on and immediately hold down the relevant [key combination](https://source.android.com/source/running#booting-into-fastboot-mode) (<https://source.android.com/source/running#booting-into-fastboot-mode>) for your device.

4. If necessary, unlock the device's bootloader using one of the following methods:

- If you are updating a Nexus or Pixel device that is manufactured in 2015 or later (for example, a Nexus 5X, Nexus 6P, Pixel, Pixel XL, Pixel 2 or Pixel 2 XL device), run this command:

```
fastboot flashing unlock
```





Note: the 'flashing unlock' command is only available with fastboot version 23.0.1 or later. The latest available version of fastboot can be downloaded from [SDK Platform Tools](https://developer.android.com/studio/releases/platform-tools) (<https://developer.android.com/studio/releases/platform-tools.html>).

- For Pixel 2: To flash the bootloader, Pixel 2's boot loader must be updated to at least Oreo MR1's version first. This may be done by applying an over-the-air (OTA) update, or sideloading a [full OTA](https://developers.google.com/android/ota) (<https://developers.google.com/android/ota>) with the instructions on that page.
- For Pixel 2 **XL only** with loader version prior to TMZ20a: the critical partitions may also need to be unlocked before flashing. The unlock can be performed with this command, and should NOT be done on other devices:

```
fastboot flashing unlock_critical
```



- If you are updating an older device, run this command:

```
fastboot oem unlock
```



The target device will show you a confirmation screen. (This erases all data on the target device.)

See [Unlocking the bootloader](https://source.android.com/source/running#unlocking-the-bootloader) (<https://source.android.com/source/running#unlocking-the-bootloader>) for more detailed instructions.

5. Open a terminal and navigate to the unzipped system image directory.
6. Execute the `flash-all` script. This script installs the necessary bootloader, baseband firmware(s), and operating system.

Once the script finishes, your device reboots. You should now lock the bootloader for security:

1. Start the device in fastboot mode again, as described above.
2. Execute:

```
fastboot flashing lock
```



or, for older devices, run:

```
fastboot oem lock
```



Locking bootloader will wipe the data on some devices. After locking the bootloader, if you want to flash the device again, you must run `fastboot oem unlock` again, which will wipe the data.

"bonito" for Pixel 3a XL

Version	Download	SHA-256 Checksum
9.0.0 (PD2A.190115.029, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/bonito-pd2a.190115.029-factory-aac5b874.zip)	aac5b874226790cff9133ac62fef4724a05c00ab0
9.0.0 (PD2A.190115.032, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/bonito-pd2a.190115.032-factory-18c01bb1.zip)	18c01bb19316442a8d5545155a163cbbf871b58
9.0.0 (PQ3B.190605.006, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/bonito-pq3b.190605.006-factory-8677ce70.zip)	8677ce70e0b22160474d9363ce5e885e6340e86
9.0.0 (PQ3B.190705.003, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/bonito-pq3b.190705.003-factory-db56e533.zip)	db56e533a61f949b5eb753fb9561c84e68147b86
9.0.0 (PQ3B.190801.002, Aug 2019)	Link (https://dl.google.com/dl/android/aosp/bonito-pq3b.190801.002-factory-61a2836d.zip)	61a2836d098d640e0d7b79a4630f386f5e4d82a7

"sargo" for Pixel 3a

Version	Download	SHA-256 Checksum
9.0.0 (PD2A.190115.029, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/sargo-pd2a.190115.029-factory-b05c97da.zip)	b05c97da93de98219c526c9cb59f4e9f5bcd0ab5
9.0.0 (PD2A.190115.032,	Link	c0068fd4b78c939cb9a84921f2c1fc15c5316618e

Mar 2019)	(https://dl.google.com/dl/android/aosp/sargo-pd2a.190115.032-factory-c0068fd4.zip)	
9.0.0 (PQ3B.190605.006, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/sargo-pq3b.190605.006-factory-81f898b7.zip)	81f898b7b792f1d25a1245922e130f0933d9937b
9.0.0 (PQ3B.190705.003, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/sargo-pq3b.190705.003-factory-55d7c2c4.zip)	55d7c2c4445b698051ab12af5966789a94b2deb8
9.0.0 (PQ3B.190801.002, Aug 2019)	Link (https://dl.google.com/dl/android/aosp/sargo-pq3b.190801.002-factory-56817dc2.zip)	56817dc2993f0b3b6cf1972c74329ff154465849b

"crosshatch" for Pixel 3 XL

Version	Download	SHA-256 Checksum
9.0.0 (PD1A.180720.030, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pd1a.180720.030-factory-38b1b90a.zip)	38b1b90a38dfd7f449cba4eb2cf786b76
9.0.0 (PD1A.180720.031, Sep 2018, Verizon)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pd1a.180720.031-factory-7e9da376.zip)	7e9da376a846c934eb3b4ca39833996e
9.0.0 (PQ1A.181105.017.A1, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq1a.181105.017.a1-factory-6f06f1a0.zip)	6f06f1a05e1fd18624a3f0b8d91ca0c385
9.0.0 (PQ1A.181205.006, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq1a.181205.006-factory-96b23504.zip)	96b235048c53d3b37039c092889f1b8a7
9.0.0 (PQ1A.181205.006.A1, Dec 2018, Docomo)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq1a.181205.006.a1-factory-99bead33.zip)	99bead334525f4d26ef5777ebc9106486
9.0.0 (PQ1A.190105.004, Jan 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq1a.190105.004-factory-7165155c.zip)	7165155c738eac530a3d27bd03d166b3

9.0.0 (PQ2A.190205.001, Feb 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq2a.190205.001-factory-b72bfd04.zip)	b72bfd04a10ff6bd21de60f12024276885
9.0.0 (PQ2A.190305.002, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq2a.190305.002-factory-dc7e9ca4.zip)	dc7e9ca44a19fa2ce5a5ed54fc7be5f2f8
9.0.0 (PQ2A.190405.003, Apr 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq2a.190405.003-factory-379f92bd.zip)	379f92bd93a5cece17f5123ef6668099f7
9.0.0 (PQ3A.190505.002, May 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq3a.190505.002-factory-99879eba.zip)	99879eba8020ad35c69a90f3b3d4443e8
9.0.0 (PQ3A.190605.003, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq3a.190605.003-factory-3a0d8bba.zip)	3a0d8bba48f542533edaf2fb135c23ef51
9.0.0 (PQ3A.190605.004.A1, Jun 2019, Verizon)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq3a.190605.004.a1-factory-0933f208.zip)	0933f2080c5bba78f2858c892ec899cda
9.0.0 (PQ3A.190705.003, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq3a.190705.003-factory-e59cf7a4.zip)	e59cf7a412e48d0f78463a67dc0085d98
9.0.0 (PQ3A.190801.002, Aug 2019)	Link (https://dl.google.com/dl/android/aosp/crosshatch-pq3a.190801.002-factory-15db810d.zip)	15db810de7d3aa3ad660ffe6bcd572178

"blueline" for Pixel 3

Version	Download	SHA-256 Checksum
9.0.0 (PD1A.180720.030, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/blueline-pd1a.180720.030-factory-d6fefe86.zip)	d6fefe86e203d4c5b9f2559f82443fb883a34
9.0.0	Link	3df41a2b65335bb6c130f36b0bbd87c3f908

(PD1A.180720.031, Sep 2018, Verizon)	(https://dl.google.com/dl/android/aosp/blueline-pd1a.180720.031-factory-3df41a2b.zip)	
9.0.0 (PQ1A.181105.017.A1, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/blueline-pq1a.181105.017.a1-factory-b00ec7b5.zip)	b00ec7b509c78ed06648e94ddb6fedcbac29
9.0.0 (PQ1A.181205.006, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/blueline-pq1a.181205.006-factory-af1829a6.zip)	af1829a69d8c041729725a2dbd7033f12e4e
9.0.0 (PQ1A.181205.006.A1, Dec 2018, Docomo)	Link (https://dl.google.com/dl/android/aosp/blueline-pq1a.181205.006.a1-factory-e0442d3b.zip)	e0442d3b0a9e5636f4979b5780b6173635fe
9.0.0 (PQ1A.190105.004, Jan 2019)	Link (https://dl.google.com/dl/android/aosp/blueline-pq1a.190105.004-factory-49adfd52.zip)	49adfd52b308b97c5bf576eea7e0ea8ba0f5
9.0.0 (PQ2A.190205.001, Feb 2019)	Link (https://dl.google.com/dl/android/aosp/blueline-pq2a.190205.001-factory-7bb97f58.zip)	7bb97f58ff9abbb6730da2ff6dea6ff938c936
9.0.0 (PQ2A.190305.002, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/blueline-pq2a.190305.002-factory-b8869812.zip)	b8869812509521216f02bac1d24bf146e0fc
9.0.0 (PQ2A.190405.003, Apr 2019)	Link (https://dl.google.com/dl/android/aosp/blueline-pq2a.190405.003-factory-c12f40f0.zip)	c12f40f0b189eb2daa80d029917bc9a8841c
9.0.0 (PQ3A.190505.002, May 2019)	Link (https://dl.google.com/dl/android/aosp/blueline-pq3a.190505.002-factory-26d20025.zip)	26d2002511d6a13fc523334b7f783dd757ec
9.0.0 (PQ3A.190605.003, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/blueline-pq3a.190605.003-factory-258494df.zip)	258494df9d2bfb354f7afce3257369fb0b424
9.0.0 (PQ3A.190605.004.A1, Jun 2019, Verizon)	Link (https://dl.google.com/dl/android/aosp/blueline-pq3a.190605.004.a1-factory-da940910.zip)	da940910bf3ac99af6ae53be3971698737ba
9.0.0 (PQ3A.190705.003, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/blueline-pq3a.190705.003-factory-c14bfb79.zip)	c14bfb79b6660398f0454279b98ab45ace89
9.0.0	Link	f3d66c498994c7ca8c63a97f74bbd2634db7

(PQ3A.190801.002, (https://dl.google.com/dl/android/aosp/blueline-
Aug 2019) pq3a.190801.002-factory-f3d66c49.zip)

"taimen" for Pixel 2 XL

Version	Download	SHA-256 Checksum
8.0.0 (OPD1.170816.010, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/taimen-opd1.170816.010-factory-c796ddb4.zip)	c796ddb4c774aa7c06b03f83adef30c3bb1d
8.0.0 (OPD1.170816.011, Sep 2017, Telstra)	Link (https://dl.google.com/dl/android/aosp/taimen-opd1.170816.011-factory-1b02df7a.zip)	1b02df7a423f2638323309b4412372adcb66
8.0.0 (OPD1.170816.012, Sep 2017, Rogers, Fido)	Link (https://dl.google.com/dl/android/aosp/taimen-opd1.170816.012-factory-20574403.zip)	205744037fce9f7bc278507a7d019522ea47
8.0.0 (OPD3.170816.012, Sep 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/taimen-opd3.170816.012-factory-abe3dadf.zip)	abe3dadfaa649bbdff0f014e27ec4fbeb73a7
8.0.0 (OPD1.170816.025, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/taimen-opd1.170816.025-factory-907c4030.zip)	907c40302ff8e63cc6d633372f33f904424bc
8.0.0 (OPD3.170816.023, Nov 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/taimen-opd3.170816.023-factory-b8ea4687.zip)	b8ea46873a20f1399cd6c4c98283ea8f4cd0
8.1.0 (OPM1.171019.011, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/taimen-opm1.171019.011-factory-2df1c1cb.zip)	2df1c1cbb1761bf63cc5919ee071c9988235
8.1.0 (OPM2.171019.012, Dec 2017, Telus Only)	Link (https://dl.google.com/dl/android/aosp/taimen-opm2.171019.012-factory-0985fde2.zip)	0985fde27be8cf17feebafd97b41d95ac14c5
8.1.0	Link	6d9954c389ec8d252f531f9f079f4b8b9ef7c

OPM1.171019.013, Jan 2018)	(https://dl.google.com/dl/android/aosp/taimen-opm1.171019.013-factory-6d9954c3.zip)	
8.1.0 (OPM1.171019.014, Jan 2018, O2/UK only)	Link (https://dl.google.com/dl/android/aosp/taimen-opm1.171019.014-factory-2e06f724.zip)	2e06f724b28edf57299ea157ca08a96ea73e
8.1.0 (OPM1.171019.018, Feb 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-opm1.171019.018-factory-e96a86ae.zip)	e96a86aeaae2998ff6c3fcc5ed88cc08ed88a
8.1.0 (OPM1.171019.021, Mar 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-opm1.171019.021-factory-55f528f1.zip)	55f528f1b56d736ed38dca20843657f26de1
8.1.0 (OPM2.171019.029, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-opm2.171019.029-factory-2937a399.zip)	2937a3995f35c1ed917388afe962e9c02b0c
8.1.0 (OPM4.171019.015.A1, Apr 2018, Telus and Koodo Only)	Link (https://dl.google.com/dl/android/aosp/taimen-opm4.171019.015.a1-factory-6793351f.zip)	6793351f09d778c691beb878bdc286620e39
8.1.0 (OPM2.171019.029.B1, May 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-opm2.171019.029.b1-factory-8faa494b.zip)	8faa494b5b7aaf195160551d21cab230b37f
8.1.0 (OPM4.171019.016.B1, May 2018, Fi Carriers)	Link (https://dl.google.com/dl/android/aosp/taimen-opm4.171019.016.b1-factory-f28b4a9b.zip)	f28b4a9b2c25ae32c6d0506e41f89473ef43
8.1.0 (OPM2.171026.006.C1, Jun 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-opm2.171026.006.c1-factory-21236059.zip)	2123605944b0952de2c4d84bd8b3521119a
8.1.0 (OPM4.171019.021.E1, Jun 2018, T-Mobile)	Link (https://dl.google.com/dl/android/aosp/taimen-opm4.171019.021.e1-factory-87ca9824.zip)	87ca98249597ddae2ff2ed0570d9a13a7bf2
8.1.0 (OPM2.171026.006.H1, Jul 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-opm2.171026.006.h1-factory-57328312.zip)	57328312ff7ce98f4091a80a988ef21a00a2c
8.1.0 (OPM4.171019.021.R1, Jul 2018, T-Mobile)	Link (https://dl.google.com/dl/android/aosp/taimen-opm4.171019.021.r1-factory-dcbe1346.zip)	dcbe1346be702a246b27da547d0be56f7018

9.0.0 (PPR1.180610.009, Aug 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-ppr1.180610.009-factory-3fb33477.zip)	3fb334772a8d8256d4aae0420f4015e01f44
9.0.0 (PPR1.180610.011, Aug 2018, Telstra)	Link (https://dl.google.com/dl/android/aosp/taimen-ppr1.180610.011-factory-9f0cb004.zip)	9f0cb004c3b42789c150293aa6a6eecb0f28
9.0.0 (PPR2.180905.005, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-ppr2.180905.005-factory-c21252d4.zip)	c21252d46416ab94fa4dd22e8f3b13de7b12
9.0.0 (PPR2.181005.003, Oct 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-ppr2.181005.003-factory-f0a1d2c1.zip)	f0a1d2c1aa9fb4c2b15e5519d3c5606e4304
9.0.0 (PQ1A.181105.017.A1, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-pq1a.181105.017.a1-factory-e79a94ed.zip)	e79a94ed6954dc9243a5f601ca37da1c54d1
9.0.0 (PQ1A.181205.002, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/taimen-pq1a.181205.002-factory-4d01cf61.zip)	4d01cf614a511bfdf84928eb976a04e5f2037
9.0.0 (PQ1A.190105.004, Jan 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq1a.190105.004-factory-1fa0246a.zip)	1fa0246a1e4aa38bf4aee0a635721ea278c9
9.0.0 (PQ2A.190205.002, Feb 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq2a.190205.002-factory-5bf777e4.zip)	5bf777e465c0f3573371b04347ab0ad085f5
9.0.0 (PQ2A.190305.002, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq2a.190305.002-factory-8f42be1a.zip)	8f42be1a67742c3ddb7a71539ad59e036d06
9.0.0 (PQ2A.190405.003, Apr 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq2a.190405.003-factory-3d72fe71.zip)	3d72fe7129d0be55f92df8cc15b8fc9bf77db
9.0.0 (PQ3A.190505.001, May 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq3a.190505.001-factory-f91e5af8.zip)	f91e5af8dd8675c737b78b03c60143c14e78
9.0.0 (PQ3A.190605.003, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq3a.190605.003-factory-59303ad9.zip)	59303ad91d7876a231d72a62681c3dfd5890

9.0.0 (PQ3A.190705.001, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq3a.190705.001-factory-884e074c.zip)	884e074c374080550450d6b9356e9732043
9.0.0 (PQ3A.190801.002, Aug 2019)	Link (https://dl.google.com/dl/android/aosp/taimen-pq3a.190801.002-factory-b26aa2d7.zip)	b26aa2d7f03fd3ebb3d5de4840efe2614043

"walleye" for Pixel 2

Version	Download	SHA-256 Checksum
8.0.0 (OPD1.170816.010, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/walleye-opd1.170816.010-factory-63083164.zip)	63083164c20ee40077d0a1f54b48dc6cb86
8.0.0 (OPD1.170816.011, Sep 2017, Telstra)	Link (https://dl.google.com/dl/android/aosp/walleye-opd1.170816.011-factory-cd9a3474.zip)	cd9a3474ca8f281316fe5d580fc2f90a5183
8.0.0 (OPD1.170816.012, Sep 2017, Rogers, Fido)	Link (https://dl.google.com/dl/android/aosp/walleye-opd1.170816.012-factory-a771b8c2.zip)	a771b8c2760d8f3eeeeaa94737186489ae3
8.0.0 (OPD3.170816.012, Sep 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/walleye-opd3.170816.012-factory-9626515d.zip)	9626515dd78cb1ff1cdac07b72c17ade6ea9
8.0.0 (OPD1.170816.018, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/walleye-opd1.170816.018-factory-b153660d.zip)	b153660d7451973f29b1b8e1eda74f97747
8.0.0 (OPD2.170816.015, Nov 2017, DTAG)	Link (https://dl.google.com/dl/android/aosp/walleye-opd2.170816.015-factory-5e7a47f0.zip)	5e7a47f0f4c1a9234aa4d022213cf2ed2f9fc
8.0.0 (OPD3.170816.016, Nov 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/walleye-opd3.170816.016-factory-4bc6a6f9.zip)	4bc6a6f9751467b65d8aab46e40bf37e810c

8.0.0 (OPD1.170816.025, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/walleye-opd1.170816.025-factory-4752baae.zip)	4752baae571f7d645099ad8de38ce525eb
8.0.0 (OPD3.170816.023, Nov 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/walleye-opd3.170816.023-factory-f269631e.zip)	f269631e3ed65d3bfe21a6ea4d143b828057
8.1.0 (OPM1.171019.011, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/walleye-opm1.171019.011-factory-f74dd4fd.zip)	f74dd4fd9c7816a694901b01ba922c5033ac
8.1.0 (OPM2.171019.012, Dec 2017, Telus Only)	Link (https://dl.google.com/dl/android/aosp/walleye-opm2.171019.012-factory-9b47e323.zip)	9b47e323f005402ed008b8dee5bc014dd6f8
8.1.0 (OPM1.171019.013, Jan 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-opm1.171019.013-factory-56e2f2dc.zip)	56e2f2dcd03083cacf177b2dcadef13fa5a2f
8.1.0 (OPM1.171019.014, Jan 2018, O2/UK only)	Link (https://dl.google.com/dl/android/aosp/walleye-opm1.171019.014-factory-123066fb.zip)	123066fb33acd740fd8ccb09111b1d3d2f9c
8.1.0 (OPM2.171019.016, Jan 2018, Verizon)	Link (https://dl.google.com/dl/android/aosp/walleye-opm2.171019.016-factory-d162f4a5.zip)	d162f4a51ef5f5fa4660e6319e5a1fbf3950c
8.1.0 (OPM1.171019.019, Feb 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-opm1.171019.019-factory-b9946689.zip)	b994668911759ec000d671ce73728dc23e9
8.1.0 (OPM1.171019.021, Mar 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-opm1.171019.021-factory-ab7d4133.zip)	ab7d4133548a10d6983e377e2c65d4287d3
8.1.0 (OPM2.171019.029, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-opm2.171019.029-factory-41296266.zip)	4129626633cbab200c6c18fc52b2dd83271
8.1.0 (OPM4.171019.015.A1, Apr 2018, Telus and Koodo Only)	Link (https://dl.google.com/dl/android/aosp/walleye-opm4.171019.015.a1-factory-a9124507.zip)	a91245077caf240831a835b26d0b44d703d
8.1.0 (OPM2.171019.029.B1, May 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-opm2.171019.029.b1-factory-f3086353.zip)	f30863534452ad2a899d874c0bc31c95ff15

8.1.0 (OPM4.171019.016.B1, (https://dl.google.com/dl/android/aosp/walleye-May 2018, Fi Carriers)	Link (https://dl.google.com/dl/android/aosp/walleye-opm4.171019.016.b1-factory-6f46fa22.zip)	6f46fa2228cc1aff8a990851c13c46c0dd6e3
8.1.0 (OPM2.171026.006.C1, (https://dl.google.com/dl/android/aosp/walleye-Jun 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-opm2.171026.006.c1-factory-1c0e0e5a.zip)	1c0e0e5aa24feab53fbb43d26d246c485f16
8.1.0 (OPM4.171019.021.E1, (https://dl.google.com/dl/android/aosp/walleye-Jun 2018, T-Mobile)	Link (https://dl.google.com/dl/android/aosp/walleye-opm4.171019.021.e1-factory-5a35d247.zip)	5a35d247ab5cdd5150b9d7417667123757c
8.1.0 (OPM2.171026.006.G1, (https://dl.google.com/dl/android/aosp/walleye-Jul 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-opm2.171026.006.g1-factory-f7f5a622.zip)	f7f5a6228b5e5a7b3e9de82fcbb98b313c44
8.1.0 (OPM4.171019.021.Q1, (https://dl.google.com/dl/android/aosp/walleye-Jul 2018, T-Mobile)	Link (https://dl.google.com/dl/android/aosp/walleye-opm4.171019.021.q1-factory-a4b25146.zip)	a4b251468a0a6236088f78cba6ddca7038fb
9.0.0 (PPR1.180610.009, Aug 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-ppr1.180610.009-factory-4149f7e5.zip)	4149f7e5a7ea4b852910d6d25f2d594d07f2
9.0.0 (PPR1.180610.011, Aug 2018, Telstra)	Link (https://dl.google.com/dl/android/aosp/walleye-ppr1.180610.011-factory-0fbd3048.zip)	0fbd304845b6a1e8c5960deedb70aab0f804
9.0.0 (PPR2.180905.005, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-ppr2.180905.005-factory-4895938f.zip)	4895938f17a317c1373c37480c33b09f7d2c
9.0.0 (PPR2.181005.003, Oct 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-ppr2.181005.003-factory-8613da61.zip)	8613da61efa69e8aaac416b7c26e239843a
9.0.0 (PQ1A.181105.017.A1, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-pq1a.181105.017.a1-factory-408e5a32.zip)	408e5a32abf252fb4acdf72c0ba98a393978
9.0.0 (PQ1A.181205.002, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/walleye-pq1a.181205.002-factory-fb27eb5a.zip)	fb27eb5ac91d339f5cc426fdd8202db7579d
9.0.0 (PQ1A.190105.004, Jan 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq1a.190105.004-factory-78374c71.zip)	78374c71a13d5edc72424b46e08f05dc9fa9

9.0.0 (PQ2A.190205.002, Feb 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq2a.190205.002-factory-781881b5.zip)	781881b5f420246a5da8c1ff72977d58867b
9.0.0 (PQ2A.190305.002, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq2a.190305.002-factory-73bd98de.zip)	73bd98dee9844d0322e84a134ba541fa682
9.0.0 (PQ2A.190405.003, Apr 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq2a.190405.003-factory-e9a0ea4c.zip)	e9a0ea4ca785784e23004033e13b6ba3610
9.0.0 (PQ3A.190505.001, May 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq3a.190505.001-factory-d2730d9c.zip)	d2730d9cd155ada199c7c9d90eebb4e43cc
9.0.0 (PQ3A.190605.003, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq3a.190605.003-factory-952d65cf.zip)	952d65cf3904e2d88a1f80a935c5b5f01749
9.0.0 (PQ3A.190705.001, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq3a.190705.001-factory-cc471c8c.zip)	cc471c8c7ffaa899e30438fa30b8d33b92b1
9.0.0 (PQ3A.190801.002, Aug 2019)	Link (https://dl.google.com/dl/android/aosp/walleye-pq3a.190801.002-factory-f9a5e230.zip)	f9a5e2307ff6d36afc94899f88d094e4468e9

"marlin" for Pixel XL

Version	Download	SHA-256 Checksum
7.1.0 (NDE63H, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/marlin-nde63h-factory-96adcecf.zip)	96adcecf136d0389569e28a3396eba92880d
7.1.0 (NDE63L, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/marlin-nde63l-factory-71a65e7e.zip)	71a65e7ef49f88a8f376831378984c019e8f0
7.1.0 (NDE63P, Oct	Link	dcdaaa51d4b4c0a67c4b670f76fe53b852b38

2016)	https://dl.google.com/dl/android/aosp/marlin-nde63p-factory-dcdaaa51.zip	
7.1.0 (Europe, NDE63U, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/marlin-nde63u-factory-24e8abeb.zip)	24e8abeb4e1f09bff31577b46661110bf7d57
7.1.0 (NDE63V, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/marlin-nde63v-factory-a66866ba.zip)	a66866ba4b8f9f1baa856828d46a747d7690
7.1.0 (Verizon, NDE63X, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/marlin-nde63x-factory-8b520419.zip)	8b520419e32141f68d9f12d7e302bfb77885e
7.1.1 (NMF26O, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/marlin-nmf26o-factory-4f68765c.zip)	4f68765c108fc3d45ece7bca8e873561e29c5
7.1.1 (NMF26Q, Dec 2016, Europe/O2)	Link (https://dl.google.com/dl/android/aosp/marlin-nmf26q-factory-5d515cbc.zip)	5d515cbc8d5b98bc36375355ef34af73e27af
7.1.1 (NMF26U, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-nmf26u-factory-10ffd61d.zip)	10ffd61d7cf7c62a77ad04cc6dc2a4ba2fc9f7
7.1.1 (NMF26V, Jan 2017, Europe/O2)	Link (https://dl.google.com/dl/android/aosp/marlin-nmf26v-factory-e6bda208.zip)	e6bda2087d010f86589e799dae19d56d7bef
7.1.1 (NOF26V, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-nof26v-factory-1dce14a1.zip)	1dce14a1cde69ac72e14894c980a82392088
7.1.1 (NOF26W, Feb 2017, Rogers Only)	Link (https://dl.google.com/dl/android/aosp/marlin-nof26w-factory-d2cb0574.zip)	d2cb05747fbd11e2590faf3c4675bd32e61e5
7.1.1 (NOF27B, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-nof27b-factory-2259c206.zip)	2259c206286971ef7a48cee8bdad9f5fb9914
7.1.1 (NOF27C, Mar 2017, Rogers Only)	Link (https://dl.google.com/dl/android/aosp/marlin-nof27c-factory-b49c0e7b.zip)	b49c0e7b058564efb6deb9278dac9263124b

7.1.1 (NOF27D, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-nof27d-factory-01a800f0.zip)	01a800f05ac28216632b4a38976517c7812b
7.1.2 (N2G47E, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-n2g47e-factory-ebc79a0b.zip)	ebc79a0b5015bd1d5d8d72c3a984cbf0de6e
7.1.2 (N2G47J, Apr 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/marlin-n2g47j-factory-503d88f5.zip)	503d88f556a481677ecaadb62e83fa3a2b73f
7.1.2 (NHG47K, Apr 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/marlin-nhg47k-factory-fc027c3b.zip)	fc027c3b428914d1a52fae80d88f5d3fd4f7ce
7.1.2 (N2G47O, May 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-n2g47o-factory-7150cd63.zip)	7150cd63ebb56bdb518a9915116773f6541c
7.1.2 (N2G47T, May 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/marlin-n2g47t-factory-a25a7b1b.zip)	a25a7b1b3d0cc3bbacde793348ea7c35d5e8
7.1.2 (NHG47L, May 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/marlin-nhg47l-factory-df005737.zip)	df0057379cacccbab2184c79258686de5fa1c7
7.1.2 (NHG47N, Jun 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/marlin-nhg47n-factory-61938704.zip)	61938704ed1a67daa281ef6516fa59316829e
7.1.2 (NJH34C, Jun 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/marlin-njh34c-factory-be914eaa.zip)	be914eaa15adb62dfec8bbd8856ce538f738f
7.1.2 (NJH47B, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-njh47b-factory-12f9e64e.zip)	12f9e64e0aa9488a200023dc2544af3d878a5
7.1.2 (NKG47L, Jun 2017, T-Mobile, Fi carriers, and Rogers)	Link (https://dl.google.com/dl/android/aosp/marlin-nkg47l-factory-9fbf9d8e.zip)	9fbf9d8ef0e5977799e1d7637b65914f0f5fcf
7.1.2 (NHG47O, Jul 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/marlin-nhg47o-factory-a2b41619.zip)	a2b41619842a7fc8b7bb5fc13e052337b3ffcf

7.1.2 (NJH47D, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-njh47d-factory-5ba1ef91.zip)	5ba1ef91e32a9fe527240050092ec4b8c781c
7.1.2 (NKG47M, Jul 2017, T-Mobile, Fi carriers)	Link (https://dl.google.com/dl/android/aosp/marlin-nkg47m-factory-f0fa887a.zip)	f0fa887a31e39b00db5d957ea2d575205fd76
7.1.2 (NZH54B, Jul 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/marlin-nzh54b-factory-857c0179.zip)	857c01792c36278c8758b3e14a1ee0c5b412
7.1.2 (NHG47Q, Aug 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/marlin-nhg47q-factory-8b788af8.zip)	8b788af852d231a6ad99324aaed38f093ca07
7.1.2 (NJH47F, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-njh47f-factory-497f7f66.zip)	497f7f663a8f31418ff4de343d123e70946e03
7.1.2 (NKG47S, Aug 2017, T-Mobile, Fi carriers, and Rogers)	Link (https://dl.google.com/dl/android/aosp/marlin-nkg47s-factory-a434e157.zip)	a434e157f855427c929113e16aa5f54b73c13
7.1.2 (NZH54D, Aug 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/marlin-nzh54d-factory-d34033fa.zip)	d34033faf5631fb66f8bc31d26928bb69a97c
8.0.0 (OPR6.170623.011, Aug 2017, Bell, Telus, Telstra, TMO, Sprint, USCC, Rogers/Fido)	Link (https://dl.google.com/dl/android/aosp/marlin-opr6.170623.011-factory-985fd412.zip)	985fd412c40dd1ec6ee780185b30c5854627
8.0.0 (OPR6.170623.012, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-opr6.170623.012-factory-6304451d.zip)	6304451dd6744b1a2faadd7921f28a217e8d
8.0.0 (OPR1.170623.026, Sep 2017, Fi/Canada)	Link (https://dl.google.com/dl/android/aosp/marlin-opr1.170623.026-factory-1ed9b4b2.zip)	1ed9b4b2cf045e04b8506eaa4927d7825d65
8.0.0 (OPR3.170623.007, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-opr3.170623.007-factory-bf187b02.zip)	bf187b023f59fe92dfd7d2b9492ad9f319ee4e
8.0.0	Link	c3d7fe5d445492d72ecedb11ce332af4f198c

(OPR1.170623.027, Oct 2017, Fi/Canada)	(https://dl.google.com/dl/android/aosp/marlin-opr1.170623.027-factory-c3d7fe5d.zip)	
8.0.0 (OPR3.170623.008, Oct 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-opr3.170623.008-factory-2079f009.zip)	2079f0098bf999fae5d25956c96da17698649
8.0.0 (OPR1.170623.032, Nov 2017, Fi/Canada)	Link (https://dl.google.com/dl/android/aosp/marlin-opr1.170623.032-factory-990d8d51.zip)	990d8d518fe2a2bcab17e01410866b3bf6cb7
8.0.0 (OPR3.170623.013, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-opr3.170623.013-factory-af0b6564.zip)	af0b65646b391da6f8386421fbc65fe4de859
8.1.0 (OPM1.171019.011, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/marlin-opm1.171019.011-factory-fe9d06f3.zip)	fe9d06f36e908d7267614697bc83a3fa04fcb
8.1.0 (OPM1.171019.012, Jan 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-opm1.171019.012-factory-b7b24003.zip)	b7b24003e805360c09c9798770d0c4280d97
8.1.0 (OPM1.171019.014, Jan 2018, O2/UK only)	Link (https://dl.google.com/dl/android/aosp/marlin-opm1.171019.014-factory-3ab03172.zip)	3ab03172cdc0e1bdd56af3f59a978b35c3b09
8.1.0 (OPM1.171019.016, Feb 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-opm1.171019.016-factory-5d034d9a.zip)	5d034d9ab6aeb0880c9d60b0cb743830629f
8.1.0 (OPM1.171019.021, Mar 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-opm1.171019.021-factory-eb9f8156.zip)	eb9f8156dcc88fee3800cd9b9bbac62b2bf23
8.1.0 (OPM2.171019.029, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-opm2.171019.029-factory-96b864b3.zip)	96b864b33a719d382d8d50c2113bb9333cf6
8.1.0 (OPM4.171019.016.B1, May 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-opm4.171019.016.b1-factory-77cb10f1.zip)	77cb10f105425713b23d3f9b488a9da54b86
8.1.0 (OPM4.171019.021.D1, Jun 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-opm4.171019.021.d1-factory-19d49a07.zip)	19d49a07453c6f7cdcf539bc67291cf389b90

8.1.0 (OPM4.171019.021.P1, Jul 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-opm4.171019.021.p1-factory-d5fc023e.zip)	d5fc023e90f37c8d353f331411a22131aa41c
9.0.0 (PPR1.180610.009, Aug 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr1.180610.009-factory-90a4fa8b.zip)	90a4fa8b99796aad1a2347dd4399aa89db9b
9.0.0 (PPR1.180610.010, Aug 2018, Telus)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr1.180610.010-factory-3b90270c.zip)	3b90270cd90527298e2679ba5dafe8950894
9.0.0 (PPR1.180905.003, Sep 2018, Telus)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr1.180905.003-factory-051c4ec5.zip)	051c4ec5c33c6a948a48c9c83b36c73c976b
9.0.0 (PPR2.180905.006, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr2.180905.006-factory-df8ec974.zip)	df8ec9745c436000568af9b4205f5ba3c1fe6
9.0.0 (PPR2.180905.006.A1, Sep 2018, Verizon)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr2.180905.006.a1-factory-a78fe264.zip)	a78fe26434e04f8d5015bab79f717fc7b03b1
9.0.0 (PPR1.181005.003, Oct 2018, Telus Only)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr1.181005.003-factory-87fbdecc.zip)	87fbdecc08c8e9cabd17449118d9cc3df4db3
9.0.0 (PPR2.181005.003, Oct 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr2.181005.003-factory-59b2d3dd.zip)	59b2d3ddc0ee8b42f88cceb01f2a52cbca502
9.0.0 (PPR1.181005.003.A1, Nov 2018, Telus Only)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr1.181005.003.a1-factory-960a173f.zip)	960a173f0f84e2c3c0c5d96643e6ca3f99d5a
9.0.0 (PPR2.181005.003.A1, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-ppr2.181005.003.a1-factory-918e249f.zip)	918e249f00d79941799d0e8f09f539ad8e52c
9.0.0 (PQ1A.181205.002.A1, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/marlin-pq1a.181205.002.a1-factory-9a129f3e.zip)	9a129f3e1bed577fd87078042384648ce88d5
9.0.0 (PQ1A.190105.004,	Link	2a6c1b278b0a07561a1080f4c0017fb962865

Jan 2019)	(https://dl.google.com/dl/android/aosp/marlin-pq1a.190105.004-factory-2a6c1b27.zip)	
9.0.0 (PQ2A.190205.003, Feb 2019)	Link (https://dl.google.com/dl/android/aosp/marlin-pq2a.190205.003-factory-8a9a1ff8.zip)	8a9a1ff816b8d117c60c44db8e4b9dd84bc07
9.0.0 (PQ2A.190305.002, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/marlin-pq2a.190305.002-factory-adea2e11.zip)	adea2e1109a841867f336f91087274e90cdec
9.0.0 (PQ2A.190405.003, Apr 2019)	Link (https://dl.google.com/dl/android/aosp/marlin-pq2a.190405.003-factory-d30b60f0.zip)	d30b60f0716850430dad505b928b917d61c5
9.0.0 (PQ3A.190505.001, May 2019)	Link (https://dl.google.com/dl/android/aosp/marlin-pq3a.190505.001-factory-5dac573c.zip)	5dac573cedb98a1c8b8e9cf0bf87710e9f0d3
9.0.0 (PQ3A.190605.003, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/marlin-pq3a.190605.003-factory-14ebecf7.zip)	14ebecf79fdfdb2eba81470180942cd643be
9.0.0 (PQ3A.190705.001, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/marlin-pq3a.190705.001-factory-522f27c4.zip)	522f27c4d50055f6402ca9d4d62fb07425e3a
9.0.0 (PQ3A.190801.002, Aug 2019)	Link (https://dl.google.com/dl/android/aosp/marlin-pq3a.190801.002-factory-13dbb265.zip)	13dbb265fb7ab74473905705d2e34d019ffc0

"sailfish" for Pixel

Version	Download	SHA-256 Checksum
7.1.0 (NDE63H, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/sailfish-nde63h-factory-43ba5f81.zip)	43ba5f8130a58770edce6cb0c6c43920798e
7.1.0 (NDE63L, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/sailfish-nde63l-factory-49876a7c.zip)	49876a7c9e8f14da672dad27a0e404cccbb1

7.1.0 (NDE63P, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/sailfish-nde63p-factory-aaaa2f1a.zip)	aaaa2f1a592ba43de10396938220c4ed65ff
7.1.0 (Europe, NDE63U, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/sailfish-nde63u-factory-3fa36709.zip)	3fa367096c251cd5ab1a6c465cb60fc075b0
7.1.0 (NDE63V, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/sailfish-nde63v-factory-1b3155ff.zip)	1b3155ff623e8a872a788c54e650a0077175
7.1.0 (Verizon, NDE63X, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/sailfish-nde63x-factory-dc45f6c8.zip)	dc45f6c83547266bf9e49edeae0978c3d734
7.1.1 (NMF26O, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/sailfish-nmf26o-factory-58719f26.zip)	58719f26685322bc1c7bc0a313746ceaec67
7.1.1 (NMF26Q, Dec 2016, Europe/O2)	Link (https://dl.google.com/dl/android/aosp/sailfish-nmf26q-factory-a84e0e4b.zip)	a84e0e4b2f80bf8b88857cbde28e0617380a
7.1.1 (NMF26U, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-nmf26u-factory-b161fe98.zip)	b161fe98c4308b7e611ca3e432a8ba7141c2
7.1.1 (NMF26V, Jan 2017, Europe/O2)	Link (https://dl.google.com/dl/android/aosp/sailfish-nmf26v-factory-8ba1f89e.zip)	8ba1f89e1db6cf9a770abc065a63db96ac9a
7.1.1 (NOF26V, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-nof26v-factory-65092b38.zip)	65092b3813a769483af3b810635452c8e01
7.1.1 (NOF26W, Feb 2017, Rogers Only)	Link (https://dl.google.com/dl/android/aosp/sailfish-nof26w-factory-277fc900.zip)	277fc9006dca8b34bfc616b4bf83626d8427
7.1.1 (NOF27B, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-nof27b-factory-5a8a6e11.zip)	5a8a6e118af74588e9be13a5a6bd0d620b95
7.1.1 (NOF27C, Mar 2017, Rogers Only)	Link (https://dl.google.com/dl/android/aosp/sailfish-nof27c-factory-2451ef01.zip)	2451ef017181043e83820f7340c8ef479bca

7.1.1 (NOF27D, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-nof27d-factory-be4efef1.zip)	be4efef17af09d268ab5d27a6d2ab51412e5
7.1.2 (N2G47E, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-n2g47e-factory-00a46e7e.zip)	00a46e7ec5e000a18d17b07a348933b00ee
7.1.2 (N2G47J, Apr 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/sailfish-n2g47j-factory-0a166464.zip)	0a1664643d721ebb6235b291ad6d2ce77c0
7.1.2 (NHG47K, Apr 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/sailfish-nhg47k-factory-59f23c7a.zip)	59f23c7a6e672337c4a5e4b98f240de63db7
7.1.2 (N2G47O, May 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-n2g47o-factory-f2bc8024.zip)	f2bc8024b015fdf1e79d0ae3da187cb0c371
7.1.2 (N2G47T, May 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/sailfish-n2g47t-factory-fecae045.zip)	fecae045bc1444880a2325207a2578077058
7.1.2 (NHG47L, May 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/sailfish-nhg47l-factory-509076ee.zip)	509076eee8f730c1d3fa950158fbb55478db
7.1.2 (NHG47N, Jun 2017, NHG47N)	Link (https://dl.google.com/dl/android/aosp/sailfish-nhg47n-factory-5cea9f91.zip)	5cea9f9192c66266aee9c3b3d4004798323f
7.1.2 (NJH34C, Jun 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/sailfish-njh34c-factory-3158e0a2.zip)	3158e0a296be4677ae02c6d8b6b4ec72297
7.1.2 (NJH47B, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-njh47b-factory-1b1673a3.zip)	1b1673a3baa0e1d44c0da04323c40f71b750
7.1.2 (NKG47L, Jun 2017, T-Mobile, Fi carriers, and Rogers)	Link (https://dl.google.com/dl/android/aosp/sailfish-nkg47l-factory-2a584648.zip)	2a584648a6f9ecc17309e290e69121b1547f
7.1.2 (NHG47O, Jul 2017, Verizon)	Link	17c5ea14e8b9b984d37ea03ee9af11263574

	https://dl.google.com/dl/android/aosp/sailfish-nhg47o-factory-17c5ea14.zip	
7.1.2 (NJH47D, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-njh47d-factory-953f6c69.zip)	953f6c699769cd123398185570047182334
7.1.2 (NKG47M, Jul 2017, T-Mobile, Fi carriers)	Link (https://dl.google.com/dl/android/aosp/sailfish-nkg47m-factory-713b6613.zip)	713b66132e92bb8c5ced2282628998de9d5
7.1.2 (NZH54B, Jul 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/sailfish-nzh54b-factory-087eff7b.zip)	087eff7b428a4624ed4fc0bb51896b324892
7.1.2 (NHG47Q, Aug 2017, Verizon)	Link (https://dl.google.com/dl/android/aosp/sailfish-nhg47q-factory-135beab7.zip)	135beab7f55a7f9fcf5ae3384d0e79bfb3b39
7.1.2 (NJH47F, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-njh47f-factory-6fd9b2c4.zip)	6fd9b2c42ebbde474fff37765b90c8b688128
7.1.2 (NKG47S, Aug 2017, T-Mobile, Fi carriers, and Rogers)	Link (https://dl.google.com/dl/android/aosp/sailfish-nkg47s-factory-f4b60f10.zip)	f4b60f104d33fed036efb00d33125bbf672b0
7.1.2 (NZH54D, Aug 2017, Deutsche Telekom)	Link (https://dl.google.com/dl/android/aosp/sailfish-nzh54d-factory-127f0583.zip)	127f058367fa854002e6fd4221cfbcdc74839
8.0.0 (OPR6.170623.011, Aug 2017, Bell, Telus, Telstra, TMO, Sprint, USCC, Rogers/Fido)	Link (https://dl.google.com/dl/android/aosp/sailfish-opr6.170623.011-factory-0d712594.zip)	0d71259400371b8da44e6300324dbd6cbe2
8.0.0 (OPR6.170623.012, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-opr6.170623.012-factory-8ada9373.zip)	8ada9373e6f86cac20023bd6c7889edb0449
8.0.0 (OPR1.170623.026, Sep 2017, Fi/Canada)	Link (https://dl.google.com/dl/android/aosp/sailfish-opr1.170623.026-factory-26d3f82f.zip)	26d3f82f8f5bed5be4c3ca4ea8642ce58253
8.0.0 (OPR3.170623.007,	Link	6a2629bab74c58b769403f1f25fd81ea64bd

Sep 2017)	(https://dl.google.com/dl/android/aosp/sailfish-opr3.170623.007-factory-6a2629ba.zip)	
8.0.0 (OPR1.170623.027, Oct 2017, Fi/Canada)	Link (https://dl.google.com/dl/android/aosp/sailfish-opr1.170623.027-factory-87caffce.zip)	87caffce63fcf8af3e20f95831fda86fd311a5
8.0.0 (OPR3.170623.008, Oct 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-opr3.170623.008-factory-bb8bb3a3.zip)	bb8bb3a3f81dbb5ea19cc16d9244c089146b
8.0.0 (OPR1.170623.032, Nov 2017, Fi/Canada)	Link (https://dl.google.com/dl/android/aosp/sailfish-opr1.170623.032-factory-e011ef43.zip)	e011ef434ae32e24f14c19d83a859ed76a15
8.0.0 (OPR3.170623.013, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-opr3.170623.013-factory-bdc49b40.zip)	bdc49b40d4a45b376e86c435487160d54a4
8.1.0 (OPM1.171019.011, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm1.171019.011-factory-56d15350.zip)	56d15350a2c54960b149fc8a080547f17e1c
8.1.0 (OPM1.171019.012, Jan 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm1.171019.012-factory-49ed1aec.zip)	49ed1aec7de3bd002340a9db6d19903f0a3e
8.1.0 (OPM1.171019.014, Jan 2018, O2/UK only)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm1.171019.014-factory-32322b4c.zip)	32322b4cf384d2f77963385afd713e87d1cd
8.1.0 (OPM1.171019.016, Feb 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm1.171019.016-factory-8a6591cc.zip)	8a6591cc28c420e779e881f46b725446bea2
8.1.0 (OPM1.171019.021, Mar 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm1.171019.021-factory-68d3b69a.zip)	68d3b69a17a4f4bc0aea85ffc7db69b4103f7
8.1.0 (OPM2.171019.029, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm2.171019.029-factory-bee9592c.zip)	bee9592ca8e5863f54e42dcba3102f44caaa
8.1.0 (OPM4.171019.016.B1, May 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm4.171019.016.b1-factory-68c3a77d.zip)	68c3a77dd68f2694e312507e90f8af6b7b32

8.1.0 (OPM4.171019.021.D1, Jun 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm4.171019.021.d1-factory-e2315135.zip)	e2315135bfeb8fc400ad5bf99c34136e2a6
8.1.0 (OPM4.171019.021.P1, Jul 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-opm4.171019.021.p1-factory-0bcf4315.zip)	0bcf4315bcbd2dfe8878b00c778833ec61dd
9.0.0 (PPR1.180610.009, Aug 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr1.180610.009-factory-a945cab8.zip)	a945cab87553f7010764c2ea14745d3ef5aa
9.0.0 (PPR1.180610.010, Aug 2018, Telus)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr1.180610.010-factory-94ca0106.zip)	94ca010620ff958fdcf7d5da2bcdba1c00636
9.0.0 (PPR1.180905.003, Sep 2018, Telus)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr1.180905.003-factory-5b219c2e.zip)	5b219c2e767532a3f03a57698e4b82a0b84
9.0.0 (PPR2.180905.006, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr2.180905.006-factory-bad3cb18.zip)	bad3cb1809c9bdf451149ce9d0db79d76a8
9.0.0 (PPR2.180905.006.A1, Sep 2018, Verizon)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr2.180905.006.a1-factory-b063909b.zip)	b063909b211beea28e6879a12db1dade1eb
9.0.0 (PPR1.181005.003, Oct 2018, Telus Only)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr1.181005.003-factory-15fafd9d.zip)	15fafd9ddcb3c614d57453061d6ce2188b83
9.0.0 (PPR2.181005.003, Oct 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr2.181005.003-factory-727c51f5.zip)	727c51f523fda0fbff4f7950b691c43e7ebe79
9.0.0 (PPR1.181005.003.A1, Nov 2018, Telus Only)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr1.181005.003.a1-factory-6a2c3b69.zip)	6a2c3b69a43f93e576f953d7c8368648bd26
9.0.0 (PPR2.181005.003.A1, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-ppr2.181005.003.a1-factory-dec6298c.zip)	dec6298c7893c8a24599a764ce4ea41d4f57
9.0.0 (PQ1A.181205.002.A1, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq1a.181205.002.a1-factory-6a61ff63.zip)	6a61ff636875d6dd382ffb9ce3103ebc85b55

9.0.0 (PQ1A.190105.004, Jan 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq1a.190105.004-factory-fc5db1d4.zip)	fc5db1d45784659f8746e6895a13dddc4550
9.0.0 (PQ2A.190205.003, Feb 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq2a.190205.003-factory-164a7269.zip)	164a72699b7efea606ebedf573fa7b4bae1d
9.0.0 (PQ2A.190305.002, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq2a.190305.002-factory-73582e64.zip)	73582e64a61bd909c460b3a6687d6c9d2d8
9.0.0 (PQ2A.190405.003, Apr 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq2a.190405.003-factory-3b16bbc7.zip)	3b16bbc758cc201b276157a9852e49c19d0
9.0.0 (PQ3A.190505.001, May 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq3a.190505.001-factory-f3d2032d.zip)	f3d2032d0862961a1712445226f942f7f430
9.0.0 (PQ3A.190605.003, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq3a.190605.003-factory-3128c984.zip)	3128c984ab63e16219113c4df7b03bdec6af
9.0.0 (PQ3A.190705.001, Jul 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq3a.190705.001-factory-7f9ff7f7.zip)	7f9ff7f7fd447ecb9a3724878c71afc8ea6490
9.0.0 (PQ3A.190801.002, Aug 2019)	Link (https://dl.google.com/dl/android/aosp/sailfish-pq3a.190801.002-factory-029a3376.zip)	029a3376237220354c6bddc98a38a893976

"ryu" for Pixel C

Version	Download	SHA-256 Checksum
6.0.1 (MXB48J)	Link (https://dl.google.com/dl/android/aosp/ryu-mxb48j-factory-ce6d5a7b.zip)	ce6d5a7bdf61f2fe93b0e77d9b67f19a4e78825
6.0.1 (MXB48K)	Link	e13a6b012eb407fbdddfef2a5b482a1c12b28db

	(https://dl.google.com/dl/android/aosp/ryu-mxb48k-factory-e13a6b01.zip)	
6.0.1 (MXB48T)	Link (https://dl.google.com/dl/android/aosp/ryu-mxb48t-factory-5bf811b5.zip)	5bf811b544432444d47949d18620644bfcb857b
6.0.1 (MXC14G)	Link (https://dl.google.com/dl/android/aosp/ryu-mxc14g-factory-49149866.zip)	491498662e87df1398bed2ac11f253c97acd16f
6.0.1 (M5C14J)	Link (https://dl.google.com/dl/android/aosp/ryu-m5c14j-factory-ee1c5509.zip)	ee1c55092fa4f2ba3eef69576b556f23af6b752d
6.0.1 (MXC89F)	Link (https://dl.google.com/dl/android/aosp/ryu-mxc89f-factory-de76375c.zip)	de76375c3dc79338e97f67fa3092e502d9fc960
6.0.1 (MXC89H)	Link (https://dl.google.com/dl/android/aosp/ryu-mxc89h-factory-11161f52.zip)	11161f523b4305d5ca81e7a7fe3da7bc7ec7185
6.0.1 (MXC89K)	Link (https://dl.google.com/dl/android/aosp/ryu-mxc89k-factory-9a5ae97e.zip)	9a5ae97e093abda91131dd9337b40d49f866da5
6.0.1 (MXC89L)	Link (https://dl.google.com/dl/android/aosp/ryu-mxc89l-factory-1f9a5fcb.zip)	1f9a5fcbf9d91e79720bcaebd2873116090065b
7.0.0 (NRD90M)	Link (https://dl.google.com/dl/android/aosp/ryu-nrd90m-factory-29233f1a.zip)	29233f1ac43e9309d6c8ee6273682a7ca172f12
7.0.0 (NRD90R)	Link (https://dl.google.com/dl/android/aosp/ryu-nrd90r-factory-843758b3.zip)	843758b3c5bc6ef0e73102b13c1a7e33a0b2645
7.0.0 (NRD91D, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/ryu-nrd91d-factory-13a00ca0.zip)	13a00ca040924b6101e9a6b4f9ba7327ad72364
7.0.0 (NRD91N, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/ryu-nrd91n-factory-5abda8a4.zip)	5abda8a4f6fb35f1aa3d2fc5b347e6bf0b84f274f

7.1.1 (NMF26H, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/ryu-nmf26h-factory-52ad10d8.zip)	52ad10d82325d9c36be9b79839d7397a4bedd9
7.1.1 (N4F26I, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n4f26i-factory-2aa98ca1.zip)	2aa98ca14987da8229eca8210bc1c15b4fbba75
7.1.1 (N4F26O, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n4f26o-factory-307fc15e.zip)	307fc15eac81233b93ced1bd87570c891ad0ca4
7.1.1 (N4F26T, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n4f26t-factory-d05202a0.zip)	d05202a077105a822e3755049878bb11337481
7.1.2 (N2G47D, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n2g47d-factory-191d8ea6.zip)	191d8ea6b78033f8d9af290401a282345f2ac4c
7.1.2 (N2G47O, May 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n2g47o-factory-7918a74f.zip)	7918a74f901fbcade1ce7ee145f6685bf7c1a87d
7.1.2 (N2G47W, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n2g47w-factory-45c8abfa.zip)	45c8abfaef1af9255611f6a9f7d57a2a7ce78738
7.1.2 (N2G48B, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n2g48b-factory-fa17d973.zip)	fa17d9734da41b154a3592feb2f36313da60bad
7.1.2 (N2G48C, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-n2g48c-factory-0bc0ee15.zip)	0bc0ee15ad02bd3bd222c7b0abc6f518512978c
8.0.0 (OPR6.170623.010, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-opr6.170623.010-factory-81a1479d.zip)	81a1479d62eddc5657c6b496a5581bafe07265b
8.0.0 (OPR1.170623.026, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-opr1.170623.026-factory-e27ff2c8.zip)	e27ff2c88f88b13d1e431321b27b1bcf7fe6552c
8.0.0 (OPR1.170623.027, Oct 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-opr1.170623.027-factory-fde49df9.zip)	fde49df968a67e51a3f36876af19820323e26949

8.0.0 (OPR1.170623.032, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-opr1.170623.032-factory-020f1cf9.zip)	020f1cf911cc78dc36162b3bdb68ec6dd965ad3
8.1.0 (OPM1.171019.011, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/ryu-opm1.171019.011-factory-ccc99463.zip)	ccc99463d567d42e2d2a4e65be64670fa28d1f4
8.1.0 (OPM1.171019.015, Jan 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm1.171019.015-factory-64c65be2.zip)	64c65be241b20f085c554c09ccc87cb10222ce7
8.1.0 (OPM1.171019.016, Feb 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm1.171019.016-factory-fd9cb83e.zip)	fd9cb83e1fa9d9b5616d7662d44771a6fcea012
8.1.0 (OPM1.171019.022.A1, Mar 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm1.171019.022.a1-factory-e5c762a1.zip)	e5c762a178dc2194c86f7a5091b2302a44e6237
8.1.0 (OPM1.171019.026, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm1.171019.026-factory-8f7df218.zip)	8f7df21829368e87123f55f8954f8b8edb52c0f7
8.1.0 (OPM4.171019.016.C1, May 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm4.171019.016.c1-factory-1fa14065.zip)	1fa1406541eac02e3f422ec03d48af2b352564e2
8.1.0 (OPM4.171019.021.D1, Jun 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm4.171019.021.d1-factory-d198e485.zip)	d198e485ca4485f4ebef484d82dbb01072ad089
8.1.0 (OPM4.171019.021.N1, Jul 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm4.171019.021.n1-factory-1f31fdce.zip)	1f31fdce8d6f941ceef09dcfe81e3a65ef8eb33c8
8.1.0 (OPM4.171019.021.Y1, Aug 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm4.171019.021.y1-factory-02bcca94.zip)	02bcca943089ca31e9a83c4500fd9d37f7b7c58
8.1.0 (OPM4.171019.021.Z1, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm4.171019.021.z1-factory-5caf896d.zip)	5caf896d79430f4a12dd1cb937bbed7b1557456
8.1.0 (OPM8.181005.003, Oct 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.181005.003-factory-d5eea995.zip)	d5eea99520bf396c85648b1cc4e6bba73b9943c

8.1.0 (OPM8.181105.002, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.181105.002-factory-fa8f00b5.zip)	fa8f00b5d15ae705b22acf65291dd1cc28c72fca
8.1.0 (OPM8.181205.001, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.181205.001-factory-11eb366b.zip)	11eb366bfa1eddeda13f2610c88df33742e931b
8.1.0 (OPM8.190105.002, Jan 2019)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.190105.002-factory-9f1e2867.zip)	9f1e2867ac928fcd96e6ed176ffea95bc27c7b84
8.1.0 (OPM8.190205.001, Feb 2019)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.190205.001-factory-84f16195.zip)	84f16195106f3c282795178784916012bda76bc
8.1.0 (OPM8.190305.001, Mar 2019)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.190305.001-factory-0d59fffd.zip)	0d59fffd3d3ba68d79098cc9f5347449ee9b1cb3
8.1.0 (OPM8.190405.001, Apr 2019)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.190405.001-factory-08674d7b.zip)	08674d7bcb287541ebddb597e4abbade0bb7d0
8.1.0 (OPM8.190505.001, May 2019)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.190505.001-factory-d6019509.zip)	d60195096f4507e88d17c572db7fba9081088b5
8.1.0 (OPM8.190605.003, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.190605.003-factory-4548e81b.zip)	4548e81b985d4870b850a26eb0cee211b02606
8.1.0 (OPM8.190605.005, Jun 2019)	Link (https://dl.google.com/dl/android/aosp/ryu-opm8.190605.005-factory-25b457f3.zip)	25b457f38b549d7195b8b1b09b77c5fbf02e249

"angler" for Nexus 6P

Version	Download	SHA-256 Checksum
6.0.0 (MDA89D)	Link	9f001626d37785a4845e2d61c53caaff839a3

	(https://dl.google.com/dl/android/aosp/angler-mda89d-factory-9f001626.zip)	
6.0.0 (MDB08K)	Link (https://dl.google.com/dl/android/aosp/angler-mdb08k-factory-46550886.zip)	4655088655f64e4f778adebe9e0ac8099447a
6.0.0 (MDB08L)	Link (https://dl.google.com/dl/android/aosp/angler-mdb08l-factory-bb060be5.zip)	bb060be5690856a09325862c94c356877503
6.0.0 (MDB08M)	Link (https://dl.google.com/dl/android/aosp/angler-mdb08m-factory-5690aabf.zip)	5690aabf9b18d19ffff5949907eb123f15aff6c
6.0.0 (MMB29N)	Link (https://dl.google.com/dl/android/aosp/angler-mmb29n-factory-63f8243f.zip)	63f8243f3bc4fed4638ce9bc943d989da34e7
6.0.1 (MMB29M)	Link (https://dl.google.com/dl/android/aosp/angler-mmb29m-factory-616cf265.zip)	616cf265c50f3960883f4c0e22b5e795defd8
6.0.1 (MMB29P)	Link (https://dl.google.com/dl/android/aosp/angler-mmb29p-factory-ba26af97.zip)	ba26af977515fc9279f78aec766b6e1da33d3
6.0.1 (MMB29Q)	Link (https://dl.google.com/dl/android/aosp/angler-mmb29q-factory-24a6e02f.zip)	24a6e02f2c3134a32e0d164d016383459578
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/angler-mmb29v-factory-17366b60.zip)	17366b60a63f8d3a9844f7562ea04d1a4409
6.0.1 (MHC19I)	Link (https://dl.google.com/dl/android/aosp/angler-mhc19i-factory-545ef106.zip)	545ef1061782108ad699b96a1f05a59c73ee
6.0.1 (MHC19Q)	Link (https://dl.google.com/dl/android/aosp/angler-mhc19q-factory-e49fbdfd.zip)	e49fbdfd9982787166b5b159861f9d41ba817
6.0.1 (MTC19T)	Link (https://dl.google.com/dl/android/aosp/angler-mtc19t-factory-095027d5.zip)	095027d58b891101167b85a0032998e720da
6.0.1 (MTC19V)	Link	b322694cd8b4f2dfba77889dd9cc645b59e5

	(https://dl.google.com/dl/android/aosp/angler-mtc19v-factory-b322694c.zip)	
6.0.1 (MTC19X)	Link (https://dl.google.com/dl/android/aosp/angler-mtc19x-factory-ee8f6cd9.zip)	ee8f6cd94ce599d6b938ad055c7a1c333b9e
6.0.1 (MTC20F)	Link (https://dl.google.com/dl/android/aosp/angler-mtc20f-factory-4355fe06.zip)	4355fe06c7f4fe5a319838991bdef3381cf566
6.0.1 (MTC20L)	Link (https://dl.google.com/dl/android/aosp/angler-mtc20l-factory-b7864fdb.zip)	b7864fdb261080ba1ab7126f7f2dee9e80fab
7.0.0 (NRD90T)	Link (https://dl.google.com/dl/android/aosp/angler-nrd90t-factory-75edc1f7.zip)	75edc1f7a52c81907a294530bcd1248cc821
7.0.0 (NRD90U)	Link (https://dl.google.com/dl/android/aosp/angler-nrd90u-factory-7c9b6a2b.zip)	7c9b6a2b91be9cfad51e40cd43a9c82be982
7.0.0 (NBD90X, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/angler-nbd90x-factory-4e17ed23.zip)	4e17ed23bd461960996a32453d2d378ee3ac
7.0.0 (NBD91K, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/angler-nbd91k-factory-6f206c95.zip)	6f206c95da22ae17a26e5da22a14a09e676d
7.1.1 (NMF26F, Dec 2016. All carriers except Verizon)	Link (https://dl.google.com/dl/android/aosp/angler-nmf26f-factory-ef607244.zip)	ef60724457149b9db8ad9fcd4202e4f110d05
7.1.1 (N4F26I, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n4f26i-factory-ff60a465.zip)	ff60a4656fcd7bc0cb051362d1733e876257e
7.1.1 (N4F26J, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n4f26j-factory-01874fd6.zip)	01874fd682f11ee513242fa5c75a15c52f973
7.1.1 (N4F26O, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n4f26o-factory-c53f0a50.zip)	c53f0a502154f4e78884d6b39041a2a7adda

7.1.1 (NUF26K, Feb 2017, Verizon Only)	Link (https://dl.google.com/dl/android/aosp/angler-nuf26k-factory-bde381d4.zip)	bde381d45306c6adfcbb0c14c5e0603b0230
7.1.1 (N4F26T, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n4f26t-factory-50ddc702.zip)	50ddc7027f726f32a93d1035b95cdc56518b
7.1.1 (NUF26N, Mar 2017, Verizon Only)	Link (https://dl.google.com/dl/android/aosp/angler-nuf26n-factory-4612cdec.zip)	4612cdec702583cc7ccd95b7c99ebe2b7433
7.1.1 (N4F26U, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n4f26u-factory-131d7b01.zip)	131d7b01edd691eede96c64a5911466b944e
7.1.2 (N2G47H, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n2g47h-factory-f1111327.zip)	f1111327051062c28aa80a96a51f56b1897e
7.1.2 (N2G47O, May 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n2g47o-factory-dc258043.zip)	dc258043828b0a6b96791011857eb8c1b82a
7.1.2 (N2G47W, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n2g47w-factory-bd87661a.zip)	bd87661ac3d16c7902abf9fc44b50606ff6cc
7.1.2 (N2G48B, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n2g48b-factory-34c51cad.zip)	34c51cadceaa568bdf324d6e3a1788c837b4
7.1.2 (N2G48C, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/angler-n2g48c-factory-6a21e528.zip)	6a21e52889246aee2be75479af1a684d4e1c
8.0.0 (OPR6.170623.013, Aug 2017, Not for TMO/USCC/Fi)	Link (https://dl.google.com/dl/android/aosp/angler-opr6.170623.013-factory-a63b2f21.zip)	a63b2f21ad07d7b163cdb0ff26b4d3aedfa38
8.0.0 (OPR6.170623.019, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/angler-opr6.170623.019-factory-9fd72ad6.zip)	9fd72ad64ea223f8578f7058c83864e876470
8.0.0 (OPR5.170623.007, Oct	Link	b4c75d12530fcb7f92d4e0716296ad1e582e5

2017)	(https://dl.google.com/dl/android/aosp/angler-opr5.170623.007-factory-b4c75d12.zip)	
8.0.0 (OPR5.170623.011, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/angler-opr5.170623.011-factory-0e60ceb6.zip)	0e60ceb689de1a430925188d7412f9fcfb2f3
8.0.0 (OPR5.170623.014, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/angler-opr5.170623.014-factory-9cce48d8.zip)	9cce48d868ea2cfe39aca6ef17d914bec503f
8.1.0 (OPM1.171019.011, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/angler-opm1.171019.011-factory-39448337.zip)	39448337f1716a7e097a9b32655b826ca308
8.1.0 (OPM3.171019.013, Jan 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm3.171019.013-factory-3204625a.zip)	3204625a24c0569e7e13d44edef656fcf1d35
8.1.0 (OPM5.171019.014, Jan 2018, Softbank)	Link (https://dl.google.com/dl/android/aosp/angler-opm5.171019.014-factory-a96bc15a.zip)	a96bc15a458a77441348da3caf72d2d179f47
8.1.0 (OPM3.171019.014, Feb 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm3.171019.014-factory-75d6fd94.zip)	75d6fd94c97b914dd76605d35b46526250ae
8.1.0 (OPM5.171019.015, Feb 2018, Softbank)	Link (https://dl.google.com/dl/android/aosp/angler-opm5.171019.015-factory-1e006a8d.zip)	1e006a8d17ebc3ca22d17491f2dcc1e47444
8.1.0 (OPM3.171019.016, Mar 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm3.171019.016-factory-08de5265.zip)	08de5265eb9519b313e55ba2df526b9f0249
8.1.0 (OPM5.171019.017, Mar 2018, Softbank)	Link (https://dl.google.com/dl/android/aosp/angler-opm5.171019.017-factory-64398f10.zip)	64398f101c8ba3a5ca72148a60cdd7212d10
8.1.0 (OPM3.171019.019, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm3.171019.019-factory-e48da4e0.zip)	e48da4e058f987600da708513bc31d334351
8.1.0 (OPM5.171019.019, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm5.171019.019-factory-e6191337.zip)	e6191337ae977b5a1bac32cbafae6c5edf976

8.1.0 (OPM2.171019.029.A1, May 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm2.171019.029.a1-factory-bf17e552.zip)	bf17e55271cbcf6235f5772cf6db06af6db400
8.1.0 (OPM6.171019.030.B1, Jun 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm6.171019.030.b1-factory-ab13a98b.zip)	ab13a98be182f7046a98fbaf657b1825ced93
8.1.0 (OPM6.171019.030.E1, Jul 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm6.171019.030.e1-factory-1abcb2f1.zip)	1abcb2f11fa3ad926b140173693499feb70db
8.1.0 (OPM6.171019.030.H1, Aug 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm6.171019.030.h1-factory-00138df6.zip)	00138df633bacd55beb96a1211863b849f08
8.1.0 (OPM6.171019.030.K1, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm6.171019.030.k1-factory-adc4f069.zip)	adc4f0698eb760d5fc76b8c4d8d7272760097
8.1.0 (OPM7.181005.003, Oct 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm7.181005.003-factory-42c955a4.zip)	42c955a4869bb3e3be569aefd4c7f03677fdc
8.1.0 (OPM7.181105.004, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm7.181105.004-factory-41baa917.zip)	41baa917b4ca6034a36c30d20540b21b81b4
8.1.0 (OPM7.181205.001, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/angler-opm7.181205.001-factory-b75ce068.zip)	b75ce068f23a0e793805f80fccbc081eca528

"bullhead" for Nexus 5X

Version	Download	SHA-256 Checksum
6.0.0 (MDA89E)	Link (https://dl.google.com/dl/android/aosp/bullhead-md89e-factory-d716b566.zip)	d716b566f82f8716287592febeee294792d
6.0.0 (MDB08I)	Link	329f65828483310ffcd4615ec15583f41f6

	(https://dl.google.com/dl/android/aosp/bullhead-mdb08i-factory-329f6582.zip)	
6.0.0 (MDB08L)	Link (https://dl.google.com/dl/android/aosp/bullhead-mdb08l-factory-69995ae9.zip)	69995ae939970e1fe9e954ad8ecaf046aab
6.0.0 (MDB08M)	Link (https://dl.google.com/dl/android/aosp/bullhead-mdb08m-factory-9f8fb666.zip)	9f8fb666e998999fb8317c21fea9a34082c3
6.0.1 (MMB29K)	Link (https://dl.google.com/dl/android/aosp/bullhead-mmb29k-factory-c3b91ce3.zip)	c3b91ce36655f47a63d26b6c6b94278e27
6.0.1 (MMB29P)	Link (https://dl.google.com/dl/android/aosp/bullhead-mmb29p-factory-806ea72b.zip)	806ea72b44b60dd62e4ac621244fc9d9e6
6.0.1 (MMB29Q)	Link (https://dl.google.com/dl/android/aosp/bullhead-mmb29q-factory-f8228950.zip)	f82289500de3ac128452e0a91e98c42e94
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/bullhead-mmb29v-factory-09b6d3d2.zip)	09b6d3d2770f75f82451a8ea03d5121e41c
6.0.1 (MHC19J)	Link (https://dl.google.com/dl/android/aosp/bullhead-mhc19j-factory-8083681d.zip)	8083681de1a1e0686788d7eb4215a01a
6.0.1 (MHC19Q)	Link (https://dl.google.com/dl/android/aosp/bullhead-mhc19q-factory-2e43836c.zip)	2e43836c99d6c78ce45b62a4591a151094
6.0.1 (MTC19T)	Link (https://dl.google.com/dl/android/aosp/bullhead-mtc19t-factory-dea1dfba.zip)	dea1dfba857970acf3cb0aef10b826d2d40
6.0.1 (MTC19V)	Link (https://dl.google.com/dl/android/aosp/bullhead-mtc19v-factory-61de3a6f.zip)	61de3a6fa4ef9284972adae7deeec58a3e9
6.0.1 (MTC19Z)	Link (https://dl.google.com/dl/android/aosp/bullhead-mtc19z-factory-953a60d3.zip)	953a60d30ac717cdd5228492afffe108199

6.0.1 (MTC20F)	Link (https://dl.google.com/dl/android/aosp/bullhead-mtc20f-factory-fa466167.zip)	fa4661677b9c973a4d0a4ee50fed241af61
6.0.1 (MTC20K)	Link (https://dl.google.com/dl/android/aosp/bullhead-mtc20k-factory-4a950470.zip)	4a950470af6c1e0111cfa8efbd77422928b
7.0.0 (NRD90M)	Link (https://dl.google.com/dl/android/aosp/bullhead-nrd90m-factory-61495c8b.zip)	61495c8b4e22e8ddb1522278905db3e571
7.0.0 (NRD90R)	Link (https://dl.google.com/dl/android/aosp/bullhead-nrd90r-factory-dc60b38f.zip)	dc60b38f8f248aff594e4fce28d59727b0f2
7.0.0 (NRD90S)	Link (https://dl.google.com/dl/android/aosp/bullhead-nrd90s-factory-d6bf1f56.zip)	d6bf1f56311f03903908a7fa20f75e5f9c2d
7.0.0 (NBD90W, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/bullhead-nbd90w-factory-d2f11c5f.zip)	d2f11c5f22d71eff939996291cb7430be2b
7.0.0 (NRD91N, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/bullhead-nrd91n-factory-7a2e3942.zip)	7a2e3942c5963e51ce31ad5cedcb0a634d
7.0.0 (N5D91L, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/bullhead-n5d91l-factory-7151a923.zip)	7151a9237e64b64f53e50684bc1e0cef514
7.1.1 (NMF26F, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/bullhead-nmf26f-factory-7ad6b52c.zip)	7ad6b52c7f1aba6021dd256c3c4746299e
7.1.1 (N4F26I, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n4f26i-factory-03896e0a.zip)	03896e0adb2ed6b19f0e3b8554763e48a1
7.1.1 (N4F26O, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n4f26o-factory-1da5304e.zip)	1da5304e52c43ae0fad1828fce9b60656b3
7.1.1 (N4F26T, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n4f26t-factory-8eed1d9f.zip)	8eed1d9fc7f3d6365cdd41d10f0adab3888

7.1.1 (N4F26U, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n4f26u-factory-e6420fc1.zip)	e6420fc10c3bce4625c75b2b322ccfdb652
7.1.2 (N2G47F, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n2g47f-factory-f5d53a67.zip)	f5d53a67662d1b4c2b2325813d823fc49ac
7.1.2 (N2G47O, May 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n2g47o-factory-3ff32f55.zip)	3ff32f55daae9d973021c3e67480d3210ac
7.1.2 (N2G47W, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n2g47w-factory-e4179e51.zip)	e4179e510e8fb930c42676d1fcfebeea4e3
7.1.2 (N2G47Z, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n2g47z-factory-c3573ae2.zip)	c3573ae2252cdc98d7f6e2d3ef31f79b97e
7.1.2 (N2G48C, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-n2g48c-factory-45d442a2.zip)	45d442a26832292df258d7be83de160f280
8.0.0 (OPR6.170623.013, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-opr6.170623.013-factory-203642e1.zip)	203642e1a27ee0f00302cbf0003adfb8fabf
8.0.0 (OPR4.170623.006, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-opr4.170623.006-factory-e876a276.zip)	e876a2762a721ba12abbe6849d31b4aa2c
8.0.0 (OPR4.170623.009, Oct 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-opr4.170623.009-factory-b9f20abf.zip)	b9f20abf22bb2eb912ad66db316eb83f775
8.0.0 (OPR6.170623.023, Nov 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-opr6.170623.023-factory-71c4191e.zip)	71c4191efdfa2b9a293c0f59fa6865d99caa
8.0.0 (OPR4.170623.020, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-opr4.170623.020-factory-152b858b.zip)	152b858b7b89649327db77b8fabca8afc65
8.1.0 (OPM1.171019.011, Dec 2017)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm1.171019.011-factory-3be6fd1c.zip)	3be6fd1c8ad9759f1f77f0f2e62fae62ffdbe

8.1.0 (OPM3.171019.013, Jan 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm3.171019.013-factory-20d65754.zip)	20d6575420a4e5861903ac1941c454410f
8.1.0 (OPM5.171019.014, Jan 2018, Telstra and Softbank)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm5.171019.014-factory-2f815bac.zip)	2f815bacf3c2a0b839895a1903242afbf46
8.1.0 (OPM3.171019.014, Feb 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm3.171019.014-factory-79f53247.zip)	79f532473db66f4a494229198d967601e10
8.1.0 (OPM5.171019.015, Feb 2018, Telstra and Softbank)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm5.171019.015-factory-1a2de10b.zip)	1a2de10b9f7aadfdad29244b2627b62eadc
8.1.0 (OPM3.171019.016, Mar 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm3.171019.016-factory-6e4c89cb.zip)	6e4c89cba89bc9135abf3e8c12fcbf2c2fe7
8.1.0 (OPM5.171019.017, Mar 2018, Telstra and Softbank)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm5.171019.017-factory-5c65d443.zip)	5c65d4433dea790953c542fa8b7a44f949e
8.1.0 (OPM2.171019.029, Apr 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm2.171019.029-factory-c7ba966b.zip)	c7ba966bb89462517e7c425773bc30fa26
8.1.0 (OPM4.171019.016.A1, May 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm4.171019.016.a1-factory-d5756448.zip)	d5756448fee7fefc556c9c804bee4fa02cfe
8.1.0 (OPM6.171019.030.B1, Jun 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm6.171019.030.b1-factory-b3487a6c.zip)	b3487a6c5eccdb8bdfed9f2be4d58ca89ec
8.1.0 (OPM6.171019.030.E1, Jul 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm6.171019.030.e1-factory-0650f4c3.zip)	0650f4c3118bc49f58fe7bbacb37aeed589
8.1.0 (OPM6.171019.030.H1, Aug 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm6.171019.030.h1-factory-81957f7f.zip)	81957f7fcbf6d47a595e9369dbbcc856d99

8.1.0 (OPM6.171019.030.K1, Sep 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm6.171019.030.k1-factory-0ae3cd15.zip)	0ae3cd15376f946ad25695d75857a32c69
8.1.0 (OPM7.181005.003, Oct 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm7.181005.003-factory-e23fac1c.zip)	e23fac1c7995e47e12823e3db577bb16f19
8.1.0 (OPM7.181105.004, Nov 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm7.181105.004-factory-37df0288.zip)	37df02882d3c90cebabf21fccc8f19094741
8.1.0 (OPM7.181205.001, Dec 2018)	Link (https://dl.google.com/dl/android/aosp/bullhead-opm7.181205.001-factory-5f189d84.zip)	5f189d84781a26b49aca0de84a941a32ae

"shamu" for Nexus 6

Version	Download	SHA-256 Checksum
5.0 (LRX21O)	Link (https://dl.google.com/dl/android/aosp/shamu-lrx21o-factory-ef423ec5.zip)	ef423ec5ab0f3f2370681206236b9e1817a7512375ce18
5.0.1 (LRX22C)	Link (https://dl.google.com/dl/android/aosp/shamu-lrx22c-factory-2b930c37.zip)	2b930c37ced6aee159f7c2bfa1609f61976057339b2a7f
5.1.0 (LMY47D)	Link (https://dl.google.com/dl/android/aosp/shamu-lmy47d-factory-228e9d64.zip)	228e9d64b34063d430700316b13a494277b12e519d7a7
5.1.0 (LMY47E)	Link (https://dl.google.com/dl/android/aosp/shamu-lmy47e-factory-9aeac3ca.zip)	9aeac3ca510f5aad8263e5656a10f0fef3a78a743253013
5.1.0 (LMY47I)	Link (https://dl.google.com/dl/android/aosp/shamu-lmy47i-factory-3a0545d8.zip)	3a0545d80e2e1099069b952abb03fead6481d7d4a6eac

5.1.0 (For T-Mobile ONLY) (LMY47M)	Link (https://dl.google.com/dl/android/aosp/shamulmy47m-factory-617139c6.zip)	617139c68a41784e5e971a0ff25212605bc8ced67df0c6
5.1.1 (All carriers except T-Mobile US) (LMY47Z)	Link (https://dl.google.com/dl/android/aosp/shamulmy47z-factory-81b798d6.zip)	81b798d603186730e99c701053402156cb43b96a4f0f8
5.1.1 (For T-Mobile ONLY) (LYZ28E)	Link (https://dl.google.com/dl/android/aosp/shamulyz28e-factory-d8d3c84e.zip)	d8d3c84eb70b4c593a1b30a4ec228d6c6072f5f11f2d03
5.1.1 (For Project Fi ONLY) (LVY48C)	Link (https://dl.google.com/dl/android/aosp/shamulvy48c-factory-a1cf7213.zip)	a1cf7213cfac6213b8c18c49ec0476d92b70286a0346eb
5.1.1 (LMY48I)	Link (https://dl.google.com/dl/android/aosp/shamulmy48i-factory-70635eea.zip)	70635eeaab9de2a2bca1cc5b0fdf84917ce07d13dcfcbf4
5.1.1 (For T-Mobile ONLY) (LYZ28J)	Link (https://dl.google.com/dl/android/aosp/shamulyz28j-factory-0296e96f.zip)	0296e96f8a23b6c4562a8535e9c2af9955edef09d09c98
5.1.1 (For Project Fi ONLY) (LVY48E)	Link (https://dl.google.com/dl/android/aosp/shamulvy48e-factory-bb92198f.zip)	bb92198f1c3b37da8c6933421bd898f282ec28b4661d5c
5.1.1 (LMY48M)	Link (https://dl.google.com/dl/android/aosp/shamulmy48m-factory-25210911.zip)	25210911286e7959c4237fbeeb12db0214b094f94aba90
5.1.1 (For T-Mobile ONLY) (LYZ28K)	Link (https://dl.google.com/dl/android/aosp/shamulyz28k-factory-306b611d.zip)	306b611df1796fa5795925f70066218ba75585825e0ae8
5.1.1 (For Project Fi)	Link	caf25cb7400b9cc3177c5f8d0e9d550cf39fc5c6e2f7d02

ONLY) (LVY48F)	(https://dl.google.com/dl/android/aosp/shamu-lvy48f-factory-caf25cb7.zip)	
5.1.1 (LMY48T)	Link (https://dl.google.com/dl/android/aosp/shamu-lmy48t-factory-afc4b8b7.zip)	afc4b8b70c2c4ee68a287ed64bd1e435b9731083faee67
5.1.1 (For T-Mobile ONLY) (LYZ28M)	Link (https://dl.google.com/dl/android/aosp/shamu-lyz28m-factory-dd3dcb20.zip)	dd3dcb2028c57638b1c837951dc6ca56873ec44aef7bb
5.1.1 (For Project Fi ONLY) (LVY48H)	Link (https://dl.google.com/dl/android/aosp/shamu-lvy48h-factory-d197efba.zip)	d197efba5e74588d35c77db8905423a71be8311c2a105
5.1.1 (LMY48W)	Link (https://dl.google.com/dl/android/aosp/shamu-lmy48w-factory-403fe322.zip)	403fe3222fe103fae11ffd7ee27486aacc6479c69c9760e
5.1.1 (LMY48X)	Link (https://dl.google.com/dl/android/aosp/shamu-lmy48x-factory-2bf8d6fd.zip)	2bf8d6fde027e0161d2eb3c45ea997016fdd8cc879f720
5.1.1 (LMY48Y)	Link (https://dl.google.com/dl/android/aosp/shamu-lmy48y-factory-505ed306.zip)	505ed3067bb04e45374eaad707e729c08b5d06586016c
5.1.1 (For T-Mobile ONLY) (LYZ28N)	Link (https://dl.google.com/dl/android/aosp/shamu-lyz28n-factory-5dffe2dc.zip)	5dffe2dccf71c1859a2c58d80a08e372cea3b8d49c20db
5.1.1 (For Project Fi ONLY) (LVY48I)	Link (https://dl.google.com/dl/android/aosp/shamu-lvy48i-factory-e9cedcb8.zip)	e9cedcb8f4f0be18576b7317fe915bbf868907be9859a2
6.0.0 (MRA58K)	Link (https://dl.google.com/dl/android/aosp/shamu-mra58k-factory-0c8cee76.zip)	0c8cee76432db6fc40c169a61bbd6286b76e06bc5ebf5c
6.0.0 (MRA58N)	Link (https://dl.google.com/dl/android/aosp/shamu-mra58n-factory-330ade99.zip)	330ade99ba383bb263d8ec2bbfc8e936053d29080dc3c

6.0.0 (MRA58R)	Link (https://dl.google.com/dl/android/aosp/shamu-mra58r-factory-0c3e2d0b.zip)	0c3e2d0b5a4af48eb665836bb64c6a4c95554ba6efe9a3
6.0.0 (MRA58X)	Link (https://dl.google.com/dl/android/aosp/shamu-mra58x-factory-9a184014.zip)	9a18401432138127943e8ac2464d4f7b80920f8e6d748
6.0.1 (MMB29K)	Link (https://dl.google.com/dl/android/aosp/shamu-mmb29k-factory-374c4c6a.zip)	374c4c6adfc65c5c4202bde51647c1a949ef26fdd78206
6.0.1 (MMB29S)	Link (https://dl.google.com/dl/android/aosp/shamu-mmb29s-factory-a593f97c.zip)	a593f97c033cf678dd282c5216fcf920c1cea1e9ff6ae02
6.0.1 (MMB29Q)	Link (https://dl.google.com/dl/android/aosp/shamu-mmb29q-factory-b6c05f68.zip)	b6c05f68f0613d117f589f03325c4dd4bc025188e41df7
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/shamu-mmb29v-factory-eb823e76.zip)	eb823e767cdd926638a00cf410a0580915c2a3e9d954c
6.0.1 (MMB29X)	Link (https://dl.google.com/dl/android/aosp/shamu-mmb29x-factory-64449878.zip)	64449878d12147532f8664a3f2bf47801698e4f791ab80
6.0.1 (MOB30D)	Link (https://dl.google.com/dl/android/aosp/shamu-mob30d-factory-df7014f9.zip)	df7014f9417a886bc9efc79d9a3548add5e0a18aea47f7
6.0.1 (MMB30G)	Link (https://dl.google.com/dl/android/aosp/shamu-mmb30g-factory-d5d540ed.zip)	d5d540ed1bd8f8a544740dd75f2e8e61a43a15c13a9fa2
6.0.1 (MOB30I)	Link (https://dl.google.com/dl/android/aosp/shamu-mob30i-factory-3692dac3.zip)	3692dac3560b0e03b5bab4c113ea9ebe1def8c4cbc5426
6.0.1 (MMB30J)	Link (https://dl.google.com/dl/android/aosp/shamu-mmb30j-factory-dc940f6b.zip)	dc940f6b6baeADF295806456c46fb1ca4800f1bdb43b3f9
6.0.1	Link	e0a743824b3abf397d0d7158779356dc9bb5d9d6d34c1

		(MOB30M) (https://dl.google.com/dl/android/aosp/shamu-mob30m-factory-e0a74382.zip)
6.0.1	Link	3db934979cafe6c35448e8cff0c035e1e82b198e857720
		(MMB30K) (https://dl.google.com/dl/android/aosp/shamu-mmb30k-factory-3db93497.zip)
6.0.1	Link	5d20bd38d77b33ae38c54fefe6fcef60a99270a13bdb5f7
		(MOB30O) (https://dl.google.com/dl/android/aosp/shamu-mob30o-factory-5d20bd38.zip)
6.0.1	Link	d587842660034fd6dc72b85c09b419ee96f68102ab35f7
		(MMB30R) (https://dl.google.com/dl/android/aosp/shamu-mmb30r-factory-d5878426.zip)
6.0.1	Link	21715256ba8d5e745954239b8da810e75f32e9ffed9bcd
		(MOB30W) (https://dl.google.com/dl/android/aosp/shamu-mob30w-factory-21715256.zip)
6.0.1	Link	9a710d332de151cbdadaef3cfbb18641802d4f37c5ce5a
		(MMB30W) (https://dl.google.com/dl/android/aosp/shamu-mmb30w-factory-9a710d33.zip)
6.0.1	Link	051e2d2525fcfc422c73e95bf360437c241789ea65a42b
		(MOB31E) (https://dl.google.com/dl/android/aosp/shamu-mob31e-factory-051e2d25.zip)
6.0.1	Link	95eac974e01661d62fd115180b028116597f08c9b90eae
		(MMB30Y, Oct 2016) (https://dl.google.com/dl/android/aosp/shamu-mmb30y-factory-95eac974.zip)
6.0.1	Link	5ef08d521a7bd1df742bd81363ba0f59ed489983e48fc8
		(MOB31H, Oct 2016) (https://dl.google.com/dl/android/aosp/shamu-mob31h-factory-5ef08d52.zip)
7.0.0	Link	92e7bb058e3842fab33241feb2d315cb3ff9c00d9a8bb7
		(NBD90Z, Oct 2016) (https://dl.google.com/dl/android/aosp/shamu-nbd90z-factory-92e7bb05.zip)
6.0.1	Link	dd075f342df42597aefb588d4cc851cdfe22efbada1039c
		(MMB31C, Nov 2016) (https://dl.google.com/dl/android/aosp/shamu-mmb31c-factory-dd075f34.zip)
6.0.1	Link	49a4de6b7ac963184da86e071002ccfb303b5afecf1a9b
		(MOB31K, Nov 2016) (https://dl.google.com/dl/android/aosp/shamu-mob31k-factory-49a4de6b.zip)

7.0.0 (NBD91P, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd91p-factory-987282ff.zip)	987282ffca6918cf82585b040d6e3dccb4895b9241a23d
7.0.0 (NBD91U, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd91u-factory-1aca1562.zip)	1aca15622a90922a37a8b0071c60edabe241e72303c23
6.0.1 (MOB31S, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-mob31s-factory-c73a35ef.zip)	c73a35efb3e089177f94f758de9dff8fde0df77c27bb26b
7.0.0 (NBD91X, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd91x-factory-f653ffea.zip)	f653ffeabf1a2ef0d1c8b7b9cf85511198fcf5a2961982dc
7.1.1 (N6F26Q, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f26q-factory-460b565b.zip)	460b565b5939e29cd74811392f12690a0bb9fc8ced172c
6.0.1 (MOB31T, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-mob31t-factory-a40106ff.zip)	a40106ffa0d636c705e3fd045e3cf97b8217aae3fae6703
7.0.0 (NBD91Y, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd91y-factory-7e2f4915.zip)	7e2f49150a570961f6e0a28083d9f932b2ff401af983c6b
7.0.0 (NBD91Z, Feb 2017, ATT Only)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd91z-factory-ffb1f6a6.zip)	ffb1f6a6beb63fb932c86cc329c59038f4e49254316dcf2
7.1.1 (N6F26R, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f26r-factory-d68bd4ce.zip)	d68bd4ce70cd7d94a098d16e949c6677264cb699d36e8
7.0.0 (NBD92D, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd92d-factory-a5e9a1f5.zip)	a5e9a1f535d69769caa72015d7dffc17e0a35e736f127b
7.0.0 (NBD92E, Mar 2017, ATT Only)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd92e-factory-1ad7d1a4.zip)	1ad7d1a49d15b7eccb0c41a7653a0eae5f147f64debd5b
7.1.1 (N6F26U,	Link	6e52aa95b48d4d8e1f191e4370e4207b92b822100846d

Mar 2017)	(https://dl.google.com/dl/android/aosp/shamu-n6f26u-factory-6e52aa95.zip)	
7.0.0 (NBD92F, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd92f-factory-55370c9d.zip)	55370c9de0c7b5edb8dfde126148eff68a88ceee224fb10
7.0.0 (NBD92G, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-nbd92g-factory-28a47aa1.zip)	28a47aa1bf6909ccd04bdcef375d1af64abb898b1d31e3
7.1.1 (N6F26Y, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f26y-factory-fdd4bbc7.zip)	fdd4bbc7bf72e612973231bfb46bf0df14a39304ba7de78
7.1.1 (N6F27C, May 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f27c-factory-5a3649b7.zip)	5a3649b7049e74196a449eb4c28296064c565aba72049
7.1.1 (N6F27E, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f27e-factory-74a9a99e.zip)	74a9a99ec3532ee39e5c5bde92e659d3b2b3884245f85
7.1.1 (N6F27H, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f27h-factory-718e138f.zip)	718e138faec60f7c065dd738011a720e9e3ff76101f7b9c
7.1.1 (N6F27I, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f27i-factory-edc6a1ba.zip)	edc6a1ba19d1fabfdeb1d2fdf6c2725e3be40c0eb8823f1
7.1.1 (N8I11B, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n8i11b-factory-9f65ba63.zip)	9f65ba637a135f7ed050c9d2e26bb47c23b0b79ca18711
7.1.1 (NGI55D, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-ngi55d-factory-1132151d.zip)	1132151de197efe0bd8903aeccf7b097c0d3d52a07238e
7.1.1 (N6F27M, Oct 2017)	Link (https://dl.google.com/dl/android/aosp/shamu-n6f27m-factory-bf5cce08.zip)	bf5cce08f62344d79d5b533875c3485a03accf45bd28f4
7.1.1 (N8I11F, Oct 2017,	Link (https://dl.google.com/dl/android/aosp/shamu-n8i11f-factory-ae7e8dcf.zip)	ae7e8dcf559a9efc155eac9900cd4b07174ab916d4a95b

T-Mobile)

7.1.1 [Link](#) 5cd75e2a3bbbe5d7cf886f6dba4dbfc16a04076e6ace11
(NGI77B, (https://dl.google.com/dl/android/aosp/shamu-
Oct 2017, ngi77b-factory-5cd75e2a.zip)
Verizon)

"fugu" for Nexus Player

Version	Download	SHA-256 Checksum
5.0 (LRX21M)	Link (https://dl.google.com/dl/android/aosp/fugu-lrx21m-factory-e012394c.zip)	e012394cf4ee5cd2c8957f616a23a6f5f87cb04563
5.0 (LRX21V)	Link (https://dl.google.com/dl/android/aosp/fugu-lrx21v-factory-2f283d96.zip)	2f283d965537cbb19c7b694692cea2b1c9adcd64b
5.1.0 (LMY47D)	Link (https://dl.google.com/dl/android/aosp/fugu-lmy47d-factory-3704b408.zip)	3704b4084f2e6716ba7fa220732006bc78d543562
5.1.1 (LMY47V)	Link (https://dl.google.com/dl/android/aosp/fugu-lmy47v-factory-c9a59be3.zip)	c9a59be3af6db26cb76b5f492d900dfa1a424f2403
5.1.1 (LMY48J)	Link (https://dl.google.com/dl/android/aosp/fugu-lmy48j-factory-c7b4e4c0.zip)	c7b4e4c0afe8307ec8500249c237667afb7b46b27
5.1.1 (LMY48N)	Link (https://dl.google.com/dl/android/aosp/fugu-lmy48n-factory-80ab3689.zip)	80ab3689617cd0fc1d352815a9bae2021ca0ee7c3
6.0.0 (MRA58K)	Link (https://dl.google.com/dl/android/aosp/fugu-mra58k-factory-36637aa2.zip)	36637aa266810c8dfc38c7af9b50983c34535eecd
6.0.0 (MRA58N)	Link (https://dl.google.com/dl/android/aosp/fugu-mra58n-factory-3b5bccdc.zip)	3b5bccdc7ef95f4d8757da2a5a7806bad50c6c340

6.0.1 (MMB29M)	Link (https://dl.google.com/dl/android/aosp/fugu-mmb29m-factory-203edd00.zip)	203edd000afc89c342e61e6ee2e8372bae8982fc7
6.0.1 (MMB29T)	Link (https://dl.google.com/dl/android/aosp/fugu-mmb29t-factory-80953b19.zip)	80953b195520cf153dd82122a210610b2a64ff4a0
6.0.1 (MMB29U)	Link (https://dl.google.com/dl/android/aosp/fugu-mmb29u-factory-b97861b2.zip)	b97861b28b239bbd6ccebb8e6a09db4aa1f17d90e
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/fugu-mmb29v-factory-be9d09b4.zip)	be9d09b4378f9a3274ce4ad7a45d5535823b556df
6.0.1 (MOB30D)	Link (https://dl.google.com/dl/android/aosp/fugu-mob30d-factory-b89b3606.zip)	b89b36063035bd8a650b86eaa629ab798be15fca5
6.0.1 (MOB30G)	Link (https://dl.google.com/dl/android/aosp/fugu-mob30g-factory-273c6d21.zip)	273c6d218a0955a1b40a3ca2489313f8c5010a4da
6.0.1 (MOB30M)	Link (https://dl.google.com/dl/android/aosp/fugu-mob30m-factory-17465cb7.zip)	17465cb7c2f26ffca96fb83ab387d50cc41ebc4e9b
6.0.1 (MOB30P)	Link (https://dl.google.com/dl/android/aosp/fugu-mob30p-factory-a9127fa5.zip)	a9127fa513717ec7af4afecebd8014b352922a1e77
6.0.1 (MOB30W)	Link (https://dl.google.com/dl/android/aosp/fugu-mob30w-factory-a9242814.zip)	a92428145f52d5c2ab6d6dfba142d91ca804fd1d1
7.0.0 (NRD90M)	Link (https://dl.google.com/dl/android/aosp/fugu-nrd90m-factory-3b5f38ea.zip)	3b5f38ea2d721136cf803e053e07c55c5a8378026
7.0.0 (NRD90R)	Link (https://dl.google.com/dl/android/aosp/fugu-nrd90r-factory-663a9f79.zip)	663a9f79612b3a1e3710148c62e4c0a4513c0fea3

7.0.0 (NRD91D, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/fugu-nrd91d-factory-60a7d0e5.zip)	60a7d0e500bfb45471c38b5aa4cf936fc992dd084
7.0.0 (NRD91N, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/fugu-nrd91n-factory-c3105e53.zip)	c3105e53fbb91bcaa022d678358a426399d1260c4
7.1.1 (NMF26J, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/fugu-nmf26j-factory-4dd61763.zip)	4dd61763120d981caf22b2abbd3dad3e4f76229ee
7.1.1 (NMF26R, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-nmf26r-factory-ab8fe2f8.zip)	ab8fe2f85e521640aaaeba566030175ea1d3fdf1b7
7.1.1 (NMF26X, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-nmf26x-factory-ace86f3e.zip)	ace86f3e26d5b4d623dcf9a5629ca45b23c8da2c7
7.1.1 (NMF27D, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-nmf27d-factory-55ddcf4e.zip)	55ddcf4e5f08f61a4b659a9a98953e671da884fda4
7.1.2 (N2G47H, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-n2g47h-factory-303349c6.zip)	303349c6eebb9b9ce116102d7344326dde7e5ccb1
7.1.2 (N2G47R, May 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-n2g47r-factory-bd937e40.zip)	bd937e40d191d55c3948aa7caee39091e9c4e3d8b
7.1.2 (N2G47X, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-n2g47x-factory-bf5df918.zip)	bf5df918f463f815781e230b0a0fc74ca57a57ed58
7.1.2 (N2G48B, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-n2g48b-factory-fe2179ef.zip)	fe2179ef2c58c589862a6e521c6c63e6567fdef2b4
7.1.2 (N2G48C, Aug 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-n2g48c-factory-fa00f525.zip)	fa00f5250df960e8adb51376580838e56b6034920
8.0.0 (OPR6.170623.021, Sep 2017)	Link (https://dl.google.com/dl/android/aosp/fugu-opr6.170623.021-factory-e34311b0.zip)	e34311b052e93b600bc217023f4b5b3d89db829ac

8.0.0	Link	d4be396ec7e1b569234eefe22b4a27234f45af22b8
(OPR2.170623.027, (https://dl.google.com/dl/android/aosp/fugu- Nov 2017)	opr2.170623.027-factory-d4be396e.zip)	

"volantisg" for Nexus 9 (LTE)

Version	Download	SHA-256 Checksum
5.0.1 (LRX22C)	Link (https://dl.google.com/dl/android/aosp/volantisg-lrx22c-factory-d8015ca4.zip)	d8015ca4e9849fe90778be9c752a5b10f523be461b4a
5.0.2 (LRX22L)	Link (https://dl.google.com/dl/android/aosp/volantisg-lrx22l-factory-cd3da569.zip)	cd3da5697f5ff9c930c78c2eaa1c17ab2d899b15a5bf1
5.1.1 (LMY47X)	Link (https://dl.google.com/dl/android/aosp/volantisg-lmy47x-factory-2a91598f.zip)	2a91598fbb84dd8466684f964dee48953fc405d967d5f
5.1.1 (LMY48I)	Link (https://dl.google.com/dl/android/aosp/volantisg-lmy48i-factory-898dfbd2.zip)	898dfbd203defdf71629e9d0c715821256dec1124af57
5.1.1 (LMY48M)	Link (https://dl.google.com/dl/android/aosp/volantisg-lmy48m-factory-88a64c37.zip)	88a64c3719ed95447d6be74c8ecf9d4f9fe08372e8786
5.1.1 (LMY48T)	Link (https://dl.google.com/dl/android/aosp/volantisg-lmy48t-factory-f7a4c096.zip)	f7a4c09633b8e73c6cd0c04ec61ebeb7075123e7694
5.1.1 (LMY48X)	Link (https://dl.google.com/dl/android/aosp/volantisg-lmy48x-factory-f461d081.zip)	f461d081a260d8e9d92e88f5efd80b802661477f78a9c
5.1.1 (LMY48Z)	Link (https://dl.google.com/dl/android/aosp/volantisg-lmy48z-factory-e62889df.zip)	e62889df41c193b4e2da6257fc88ff5eb5aff82a8b1ce4
5.1.1 (LMY49F)	Link	c9caeb4d9888c9db4d473cc50ea8a75f125634da7e1c

	(https://dl.google.com/dl/android/aosp/volantisg-lmy49f-factory-c9caeb4d.zip)	
6.0.0 (MRA58K)	Link (https://dl.google.com/dl/android/aosp/volantisg-mra58k-factory-1dba8ee1.zip)	1dba8ee190a569583a73873734f06b70e1aeb2d7731b
6.0.0 (MRA58N)	Link (https://dl.google.com/dl/android/aosp/volantisg-mra58n-factory-d1194c11.zip)	d1194c114bf2adf985682661b5a5fa6dbba379af8845f
6.0.1 (MMB29K)	Link (https://dl.google.com/dl/android/aosp/volantisg-mmb29k-factory-ef7c9fd9.zip)	ef7c9fd9a339de16c3afa82d1eee18650ff4760648acd3
6.0.1 (MMB29S)	Link (https://dl.google.com/dl/android/aosp/volantisg-mmb29s-factory-60e2b9e3.zip)	60e2b9e3837d5bbdd63e52a9ad54a3f45b20f34521e4
6.0.1 (MMB29R)	Link (https://dl.google.com/dl/android/aosp/volantisg-mmb29r-factory-4048f881.zip)	4048f8815f4b489d475073333f780ed08fd022a5574d7
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/volantisg-mmb29v-factory-2a546a9f.zip)	2a546a9ff09d57bc36858c5be4b7ca31357804735bbf3
6.0.1 (MMB29X)	Link (https://dl.google.com/dl/android/aosp/volantisg-mmb29x-factory-c2f54495.zip)	c2f54495871e70eea1b9e3cd21eba4057c7c9884b07a
6.0.1 (MOB30D)	Link (https://dl.google.com/dl/android/aosp/volantisg-mob30d-factory-a6df6810.zip)	a6df68105124c7da8a196caa42cfbf18e4c23d3222e0a
6.0.1 (MOB30G)	Link (https://dl.google.com/dl/android/aosp/volantisg-mob30g-factory-06932bb6.zip)	06932bb6c7a1d03a7842be6090a7719f9923a6d58f19
6.0.1 (MOB30M)	Link (https://dl.google.com/dl/android/aosp/volantisg-mob30m-factory-7f1c6739.zip)	7f1c67390e186c4a671fdd4fddd8aadd45ffc9a1fb8f0f6
6.0.1 (MOB30P)	Link (https://dl.google.com/dl/android/aosp/volantisg-mob30p-factory-bd9c5e6b.zip)	bd9c5e6b3cf0ed1b20ba388afc457315443df5d3a78b3

6.0.1 (MOB30W)	Link (https://dl.google.com/dl/android/aosp/volantisg-mob30w-factory-1afbef6f.zip)	1afbef6f45df55708d431a293371c67f5dd991daca8ec
6.0.1 (MOB31E)	Link (https://dl.google.com/dl/android/aosp/volantisg-mob31e-factory-b8c6b982.zip)	b8c6b9821622934872b8c162808bb76b78c2b18fd0a9
7.0.0 (NRD90R)	Link (https://dl.google.com/dl/android/aosp/volantisg-nrd90r-factory-ba76b361.zip)	ba76b3613888e17fd9b36382dbfb5f4cf3e7416a612fb
7.0.0 (NRD91N, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/volantisg-nrd91n-factory-972fb42b.zip)	972fb42bc769243968b833b2cae1f59082045392d548
7.1.1 (NMF26F, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/volantisg-nmf26f-factory-cb15d790.zip)	cb15d79007c1421b612fe6256268eb35c8ab2e7caa6e
7.1.1 (N4F26Q, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/volantisg-n4f26q-factory-52cefc27.zip)	52cefc279dc73193125f7531c3e9a49852776411b41e
7.1.1 (N4F26T, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/volantisg-n4f26t-factory-ac2cfe5f.zip)	ac2cfe5fd43d98d6f9880bd5f1a7f6b5fb57ed187e5220
7.1.1 (N4F26X, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/volantisg-n4f26x-factory-5e0a6018.zip)	5e0a6018465ffdb6bd97bb1680e3a59892f42d5580e6
7.1.1 (N4F27B, May 2017)	Link (https://dl.google.com/dl/android/aosp/volantisg-n4f27b-factory-c3edb21e.zip)	c3edb21e3a1e278dce4318897498efdc132e32a65bc8
7.1.1 (N4F27E, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/volantisg-n4f27e-factory-e29015b9.zip)	e29015b9b6d5cb7e1f3f525c5e3bc7591865e80eed21
7.1.1 (N4F27I, Jul 2017)	Link (https://dl.google.com/dl/android/aosp/volantisg-n4f27i-factory-a7d03ede.zip)	a7d03ede5b642f98b8450422ea36c6bcd0c42cdfbd5e
7.1.1 (N4F27K,	Link	a69e5f5e2535b9789998990f0138521d75761c463e70

Aug 2017)	(https://dl.google.com/dl/android/aosp/volantisg-n4f27k-factory-a69e5f5e.zip)	
7.1.1	Link	6826050ed70173fcdde8cf861f4c3f081f638f2a12b98e
(N4F27O,	(https://dl.google.com/dl/android/aosp/volantisg-n4f27o-factory-6826050e.zip)	
Sep 2017)		
7.1.1	Link	1e29c858d283d75dab5c53eaa6397cd1f8bf4b3dd24e
(N4F27P,	(https://dl.google.com/dl/android/aosp/volantisg-n4f27p-factory-1e29c858.zip)	
Oct 2017)		

"volantis" for Nexus 9 (Wi-Fi)

Version	Download	SHA-256 Checksum
5.0	Link	90cce0e6f02263122b4ed59ce8f8938d714ebae5febf41
(LRX21Q)	(https://dl.google.com/dl/android/aosp/volantis-lrx21q-factory-90cce0e6.zip)	
5.0	Link	d72d6d1a3f8f8ae3c6598dbec46ad6f8418341604ddace
(LRX21R)	(https://dl.google.com/dl/android/aosp/volantis-lrx21r-factory-d72d6d1a.zip)	
5.0.1	Link	cd4320b7ee3d992901d31bba4a86e8f0575cb2a57feea
(LRX22C)	(https://dl.google.com/dl/android/aosp/volantis-lrx22c-factory-cd4320b7.zip)	
5.0.2	Link	0e950403538452b615dc6a8145445c7a243d46d11e27f
(LRX22L)	(https://dl.google.com/dl/android/aosp/volantis-lrx22l-factory-0e950403.zip)	
5.1.1	Link	1091433202f01ef83176d5afbbf70e64307038f0a8328e
(LMY47X)	(https://dl.google.com/dl/android/aosp/volantis-lmy47x-factory-10914332.zip)	
5.1.1	Link	ff3f2f812df09f460ef10610eef0533cc0050239a09b1ad
(LMY48I)	(https://dl.google.com/dl/android/aosp/volantis-lmy48i-factory-ff3f2f81.zip)	
5.1.1	Link	1348474657d40374a3b44b5980889af887c07ae935304
(LMY48M)	(https://dl.google.com/dl/android/aosp/volantis-lmy48m-factory-13484746.zip)	

5.1.1 (LMY48T)	Link (https://dl.google.com/dl/android/aosp/volantis-lmy48t-factory-b925de62.zip)	b925de62459c521e6c09c69424a89b699c6f25c1ff5aba
6.0.0 (MRA58K)	Link (https://dl.google.com/dl/android/aosp/volantis-mra58k-factory-1fc6a923.zip)	1fc6a92388dcb946e4a2f6747ab70b0493b024cdfb3ffa
6.0.0 (MRA58N)	Link (https://dl.google.com/dl/android/aosp/volantis-mra58n-factory-77facd1e.zip)	77facd1e6473e088fd6103e6d1be842a095fc58014e30f
6.0.1 (MMB29K)	Link (https://dl.google.com/dl/android/aosp/volantis-mmb29k-factory-0987fac3.zip)	0987fac30ebffe1bd61daac825c7d8af46562b7b13ffce1
6.0.1 (MMB29S)	Link (https://dl.google.com/dl/android/aosp/volantis-mmb29s-factory-c1f746d3.zip)	c1f746d3333cf8afa40eef744f6c91fcb52ff5b6f14cbff67
6.0.1 (MMB29R)	Link (https://dl.google.com/dl/android/aosp/volantis-mmb29r-factory-bffa6ff7.zip)	bffa6ff738af18fe41973af19d18fd00ef7a793c5020a621
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/volantis-mmb29v-factory-da6c22ad.zip)	da6c22ad9f77e1801d8a6b37d3690499fbfa1dd2939a1
6.0.1 (MOB30D)	Link (https://dl.google.com/dl/android/aosp/volantis-mob30d-factory-391d89ed.zip)	391d89eda3e69d2f0beb6f5460395af016b28bca181e79
6.0.1 (MOB30G)	Link (https://dl.google.com/dl/android/aosp/volantis-mob30g-factory-1c35d799.zip)	1c35d7992486d3f565eb7f1d20ccd1ef675c6fd8fe8c41a
6.0.1 (MOB30M)	Link (https://dl.google.com/dl/android/aosp/volantis-mob30m-factory-adffa5c1.zip)	adffa5c14830ad2eae3ab4f616868e9311cc8cbfc653ba
6.0.1 (MOB30P)	Link (https://dl.google.com/dl/android/aosp/volantis-mob30p-factory-a742a212.zip)	a742a2124f5e4e1fe8b4ea1db007698a9359a8e45215b
6.0.1 (MOB30W)	Link	c2c750bcd815a48ce061deae94a43ce156de0f5a97f5e7

	(https://dl.google.com/dl/android/aosp/volantis-mob30w-factory-c2c750bc.zip)	
7.0.0 (NRD90M)	Link (https://dl.google.com/dl/android/aosp/volantis-nrd90m-factory-fccddb6d.zip)	fccddb6d82bd0c21b5200d047b24b6b5a6af798aa7885
7.0.0 (NRD90R)	Link (https://dl.google.com/dl/android/aosp/volantis-nrd90r-factory-84de678f.zip)	84de678f9f4b5b96f2f44dfba0ef0794a56e3727c11e410
7.0.0 (NRD91D, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/volantis-nrd91d-factory-a27db9bc.zip)	a27db9bc4613f5fc41ce30372ce8401d445bee4635851
7.0.0 (NRD91N, Nov 2016)	Link (https://dl.google.com/dl/android/aosp/volantis-nrd91n-factory-97ea58be.zip)	97ea58bec951f11bf1ffff892ef0a8de746e9ae92a0657b
7.1.1 (NMF26F, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/volantis-nmf26f-factory-dcb1615a.zip)	dcb1615a22931332a1f2a7a352e4fb04f116c7f43dd86f
7.1.1 (N4F26M, Jan 2017)	Link (https://dl.google.com/dl/android/aosp/volantis-n4f26m-factory-c8b6741d.zip)	c8b6741d3327ecda89c8cd47625eff4ff213b3e00573e5
7.1.1 (N4F26Q, Feb 2017)	Link (https://dl.google.com/dl/android/aosp/volantis-n4f26q-factory-2207298d.zip)	2207298d3ef06cba1367a9e1fe4d7bf2483ed7e8dd6b73
7.1.1 (N4F26T, Mar 2017)	Link (https://dl.google.com/dl/android/aosp/volantis-n4f26t-factory-641764b5.zip)	641764b5643de7fb87d5333ceb35ab367cd3031f7fea7a
7.1.1 (N4F26X, Apr 2017)	Link (https://dl.google.com/dl/android/aosp/volantis-n4f26x-factory-788661ae.zip)	788661ae86059575497edf290d714d92b2fb544502235
7.1.1 (N4F27B, May 2017)	Link (https://dl.google.com/dl/android/aosp/volantis-n4f27b-factory-f171c46f.zip)	f171c46f88694d3246d9dfa7387e7566a892825c01e670
7.1.1 (N9F27C, Jun 2017)	Link (https://dl.google.com/dl/android/aosp/volantis-n9f27c-factory-0d0540fb.zip)	0d0540fbc57f29ca22b13fbb0564330f0b84178ccf1f6b2

7.1.1	Link	265c20e87359a6865c8edaa33510b36fce1c0b6b9f593
(N9F27F, Jul 2017)	(https://dl.google.com/dl/android/aosp/volantis-n9f27f-factory-265c20e8.zip)	
7.1.1	Link	d2ad51d621a60f903e3080a3ea648e6eb53a1eab5c266
(N9F27H, Aug 2017)	(https://dl.google.com/dl/android/aosp/volantis-n9f27h-factory-d2ad51d6.zip)	
7.1.1	Link	f8ffc0dabae79a8ac7608c57973b4ba148152fa9e0c682
(N9F27L, Sep 2017)	(https://dl.google.com/dl/android/aosp/volantis-n9f27l-factory-f8ffc0da.zip)	
7.1.1	Link	a0d4773612f987fbff27b8eb0b4d94f17912e42e50ad7f6
(N9F27M, Oct 2017)	(https://dl.google.com/dl/android/aosp/volantis-n9f27m-factory-a0d47736.zip)	

"hammerhead" for Nexus 5 (GSM/LTE)

Version	Download	SHA-256 Checksum
4.4 (KRT16M)	Link (https://dl.google.com/dl/android/aosp/hammerhead-krt16m-factory-fb4041cc.zip)	fb4041cc77a51c2f8c93afcc06df4c50e029fef6
4.4.2 (KOT49H)	Link (https://dl.google.com/dl/android/aosp/hammerhead-kot49h-factory-3c5d358b.zip)	3c5d358ba25ee32afc1b2fc9d7d7abbc8515f24
4.4.3 (KTU84M)	Link (https://dl.google.com/dl/android/aosp/hammerhead-ktu84m-factory-9c4610fb.zip)	9c4610fb1964618685c099934784057bc13de4
4.4.4 (KTU84P)	Link (https://dl.google.com/dl/android/aosp/hammerhead-ktu84p-factory-1f5f26b1.zip)	1f5f26b17be1bb63874d82cdb03a8dea70fcff5c
4.4.4 Release 2 (For 2Degrees/NZ, Telstra/AUS and India	Link (https://dl.google.com/dl/android/aosp/hammerhead-ktu84q-factory-654c5471.zip)	654c5471bbb866193e571b9ac74da25bf436e2

ONLY) (KTU84Q)		
5.0 (LRX21O)	Link (https://dl.google.com/dl/android/aosp/hammerhead-lrx21o-factory-56a09d43.zip)	56a09d43d0dcc808d9dd9e2ed4c424af29bec2
5.0.1 (LRX22C)	Link (https://dl.google.com/dl/android/aosp/hammerhead-lrx22c-factory-3b22f481.zip)	3b22f4819d718818a65582c5c904073847b662
5.1.0 (LMY47D)	Link (https://dl.google.com/dl/android/aosp/hammerhead-lmy47d-factory-7df990ed.zip)	7df990ed37728f44f4c77d1c42c306df802f6149
5.1.0 (LMY47I)	Link (https://dl.google.com/dl/android/aosp/hammerhead-lmy47i-factory-f1734da1.zip)	f1734da163304f57b23f43d79755abec60e286c
5.1.1 (LMY48B)	Link (https://dl.google.com/dl/android/aosp/hammerhead-lmy48b-factory-e90640d2.zip)	e90640d2c2b53f9cad26addbefa42ef54d48002
5.1.1 (LMY48I)	Link (https://dl.google.com/dl/android/aosp/hammerhead-lmy48i-factory-67766277.zip)	67766277bfc9db722d8d7837ef205bda492476
5.1.1 (LMY48M)	Link (https://dl.google.com/dl/android/aosp/hammerhead-lmy48m-factory-e01ca3b7.zip)	e01ca3b73688ee06e83d6a133369f8e254b3a6
6.0.0 (MRA58K)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mra58k-factory-ccbc4611.zip)	ccbc4611deaa6e35a77b700843f7ad0e74a72fc
6.0.0 (MRA58N)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mra58n-factory-30da525d.zip)	30da525dd8aa256a796aebd0aafb030cbef584e
6.0.1 (MMB29K)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mmb29k-factory-e5796b14.zip)	e5796b1407d0c3ee6b8c01468bed0f01ddaa62
6.0.1 (MMB29S)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mmb29s-factory-82c3474f.zip)	82c3474fc87298f160e0e512c6d32458568a305

6.0.1 (MMB29Q)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mmb29q-factory-27d8a4a5.zip)	27d8a4a55de5613b98985f71eeb85384d0a78a
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mmb29v-factory-7f1b9c7e.zip)	7f1b9c7ed1df6124b935ae1fd2543f814b18234
6.0.1 (MMB29X)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mmb29x-factory-9ebfbf54.zip)	9ebfbf5473e00a25ec832b4e67c210f087aefe10
6.0.1 (MOB30D)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mob30d-factory-43d1482d.zip)	43d1482d8771f5b5d97f54b19e84481651357b
6.0.1 (MOB30H)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mob30h-factory-2c178ff7.zip)	2c178ff79014fd5703d423020d22df4618b192a
6.0.1 (MOB30M)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mob30m-factory-af019693.zip)	af019693798dceac03879feb3f46ee5b6380208
6.0.1 (MOB30P)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mob30p-factory-8d36be0c.zip)	8d36be0cfcc28da4986da0a211403b2586ab90
6.0.1 (MOB30Y)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mob30y-factory-5bea6457.zip)	5bea645798a9584f6b06419537befbbb41d057f
6.0.1 (MOB31E)	Link (https://dl.google.com/dl/android/aosp/hammerhead-mob31e-factory-90504514.zip)	9050451400a69d8cd6e2b559e87c052bb7e8d7
6.0.1 (M4B30X, Oct 2016)	Link (https://dl.google.com/dl/android/aosp/hammerhead-m4b30x-factory-10cfaa5c.zip)	10cfaa5c8ff1753af20283f5e5f938ddebbad094
6.0.1 (M4B30Z, Dec 2016)	Link (https://dl.google.com/dl/android/aosp/hammerhead-m4b30z-factory-625c027b.zip)	625c027b21afe6de7c3d0de66e3a42000269dd

"razor" for Nexus 7 [2013] (Wi-Fi)

Version	Download	SHA-256 Checksum
4.3 (JSS15Q)	Link (https://dl.google.com/dl/android/aosp/razor-jss15q-factory-e5793513.zip)	e5793513cac2602f5943b162a3693ea44f3a793187943edf
4.3 (JSS15R)	Link (https://dl.google.com/dl/android/aosp/razor-jss15r-factory-10bb907c.zip)	10bb907c4f7f465d0bcd7910b63485835f673d891b28c126
4.4 (KRT16S)	Link (https://dl.google.com/dl/android/aosp/razor-krt16s-factory-cb470f70.zip)	cb470f70e8e4c560fa0fa511806e73b12179c81fe4304ade
4.4.2 (KOT49H)	Link (https://dl.google.com/dl/android/aosp/razor-kot49h-factory-a3f2c6ab.zip)	a3f2c6ab42e84796726102771e6a0ea1045e8bc42e51085
4.4.3 (KTU84L)	Link (https://dl.google.com/dl/android/aosp/razor-ktu84l-factory-99920590.zip)	99920590cd68095b4110a3930d45212b73d01ba6fc147b6
4.4.4 (KTU84P)	Link (https://dl.google.com/dl/android/aosp/razor-ktu84p-factory-2482a7d5.zip)	2482a7d5d363da6c4beeb2ca35d05934ccc32e70484dd08
5.0 (LRX21P)	Link (https://dl.google.com/dl/android/aosp/razor-lrx21p-factory-f6f1633a.zip)	f6f1633af1d87d27b360188f60d8e047158e362ca2be53c6
5.0.1 (LRX22C)	Link (https://dl.google.com/dl/android/aosp/razor-lrx22c-factory-b8489e3a.zip)	b8489e3abf8c25544f0a688ff60dfa544c3bfcf2387bb537b
5.0.2 (LRX22G)	Link (https://dl.google.com/dl/android/aosp/razor-lrx22g-factory-980d1360.zip)	980d1360ab8ea0dcb9550b4f25a8b7bda726efb0a6d95ca
5.1.0 (LMY47O)	Link (https://dl.google.com/dl/android/aosp/razor-lmy47o-factory-06605773.zip)	066057739801c9401e8017c6e655867fbbd1f93f6c0798ec
5.1.1	Link	18ea508292bd284b4bacebe1b165016b384ab943f4fed23

(LMY47V)	(https://dl.google.com/dl/android/aosp/razor-lmy47v-factory-18ea5082.zip)	
5.1.1	Link	241edd58ebf1676d34676f55959772f1f886adaed005dd1a
(LMY48G)	(https://dl.google.com/dl/android/aosp/razor-lmy48g-factory-241edd58.zip)	
5.1.1	Link	deb25f226e98f0f1d4e50fc2a1770bf5f3a0183f67f803bd2
(LMY48I)	(https://dl.google.com/dl/android/aosp/razor-lmy48i-factory-deb25f22.zip)	
5.1.1	Link	7f8241f52fd0c9c43a67f04efae54f190314f6583cf6c292bf
(LMY48M)	(https://dl.google.com/dl/android/aosp/razor-lmy48m-factory-7f8241f5.zip)	
5.1.1	Link	0db131001ec2a7af3633a0eb12756000032095d5c6314de
(LMY48T)	(https://dl.google.com/dl/android/aosp/razor-lmy48t-factory-0db13100.zip)	
6.0.0	Link	7b438d31eb3b50e008b2d8183dda864523aaab38032e219
(MRA58K)	(https://dl.google.com/dl/android/aosp/razor-mra58k-factory-7b438d31.zip)	
6.0.0	Link	17f5967104ce9ac95eff76ec71806f521bd8309f49ae5ea06
(MRA58U)	(https://dl.google.com/dl/android/aosp/razor-mra58u-factory-17f59671.zip)	
6.0.0	Link	d3d8bc1f9f45bc485e9938dbfaec3d908c910352b8dd4f1d
(MRA58V)	(https://dl.google.com/dl/android/aosp/razor-mra58v-factory-d3d8bc1f.zip)	
6.0.1	Link	8b43affc42eff296512156a982cdf9bba7373a891ba346f7c
(MMB29K)	(https://dl.google.com/dl/android/aosp/razor-mmb29k-factory-8b43affc.zip)	
6.0.1	Link	edef049a5a768ca1c9aac9f48ee53f716117ded8ef7b6b18
(MMB29O)	(https://dl.google.com/dl/android/aosp/razor-mmb29o-factory-edef049a.zip)	
6.0.1	Link	1fc8bb0c360426dd5bc745caf32c9f7451a66d707147a299
(MMB29Q)	(https://dl.google.com/dl/android/aosp/razor-mmb29q-factory-1fc8bb0c.zip)	
6.0.1	Link	97ce617ec127e8de5c96ac552773d683210029df4f082539
(MMB29V)	(https://dl.google.com/dl/android/aosp/razor-mmb29v-factory-97ce617e.zip)	

6.0.1 (MOB30D)	Link (https://dl.google.com/dl/android/aosp/razor-mob30d-factory-8e8b2ba7.zip)	8e8b2ba7d0f014963a8e41cdc50ed82be428a9e49ed75dc
6.0.1 (MOB30J)	Link (https://dl.google.com/dl/android/aosp/razor-mob30j-factory-58203981.zip)	582039814fd8b15f87760648ddb33e3412771cae1c68777
6.0.1 (MOB30M)	Link (https://dl.google.com/dl/android/aosp/razor-mob30m-factory-4890ef1d.zip)	4890ef1d9b1b5ec82e743f5433386fab7f8daff4f83ac7c07
6.0.1 (MOB30P)	Link (https://dl.google.com/dl/android/aosp/razor-mob30p-factory-2780fa5e.zip)	2780fa5e07fc427aceb85fd78d9a205290b8bcd9f20fd3c
6.0.1 (MOB30X)	Link (https://dl.google.com/dl/android/aosp/razor-mob30x-factory-52684dff.zip)	52684dff1683ac1f012083e3476f2aad285ca937eaae1a8

"razorg" for Nexus 7 [2013] (Mobile)

Version	Download	SHA-256 Checksum
4.3 (JLS36C)	Link (https://dl.google.com/dl/android/aosp/razorg-jls36c-factory-834eab41.zip)	834eab41c8021d9016b8d7b5324ad993c655f918f7c3a4
4.3.1 (JLS36I)	Link (https://dl.google.com/dl/android/aosp/razorg-jls36i-factory-c7819e38.zip)	c7819e38d0beef181c864973a7cb889e20b50b2dd112c4
4.4 (KRT16S)	Link (https://dl.google.com/dl/android/aosp/razorg-krt16s-factory-4c0e2bbf.zip)	4c0e2bbfa073d76a9582e8d2f54fa8dda2c78eddd72cac7
4.4.2 (KOT49H)	Link (https://dl.google.com/dl/android/aosp/razorg-kot49h-factory-67f0f487.zip)	67f0f487b1ca70376a9a6406abe5cfcfb713d47505502b8
4.4.2_r2 (Verizon)	Link	6cf4006d16d39ec27d0f3f3481257b8665c3b744c03bff6

(KVT49L)	(https://dl.google.com/dl/android/aosp/razorg-kvt49l-factory-6cf4006d.zip)	
4.4.3 (KTU84L)	Link (https://dl.google.com/dl/android/aosp/razorg-ktu84l-factory-23a28047.zip)	23a280475cecb776484dcaccb4067916850e6b63a7ff5c
4.4.4 (KTU84P)	Link (https://dl.google.com/dl/android/aosp/razorg-ktu84p-factory-d0c428e1.zip)	d0c428e1592fa6bbe252ba07dbacc65c8951106d1759bf
5.0.2 (LRX22G)	Link (https://dl.google.com/dl/android/aosp/razorg-lrx22g-factory-c4fed480.zip)	c4fed480298d9b6404dccf5a513495cabf567970db8299
5.1.0 (LMY47O)	Link (https://dl.google.com/dl/android/aosp/razorg-lmy47o-factory-9db6efe6.zip)	9db6efe6c5957f1d1b9f74c6eb409bfd81c0ae8a4d346d8
5.1.1 (LMY47V)	Link (https://dl.google.com/dl/android/aosp/razorg-lmy47v-factory-d141b515.zip)	d141b515f3296f0a6b25858d1fe375edbc74224d41a394
5.1.1 (LMY48P)	Link (https://dl.google.com/dl/android/aosp/razorg-lmy48p-factory-c3dc516c.zip)	c3dc516cb278b55e17c9be513be6c162d27ddcd417baa9
5.1.1 (LMY48U)	Link (https://dl.google.com/dl/android/aosp/razorg-lmy48u-factory-96decafd.zip)	96decafd96a1c5b6f131b8226499316a0da783299f7011
5.1.1 (LMY48X)	Link (https://dl.google.com/dl/android/aosp/razorg-lmy48x-factory-0d952c83.zip)	0d952c83d9cfd3547a027af5f418f4a3b22cb172e727f03
5.1.1 (LMY48Z)	Link (https://dl.google.com/dl/android/aosp/razorg-lmy48z-factory-9a4845b2.zip)	9a4845b2481e1ee24403c77c90daeee04d71ee3233ebe
6.0.0 (MRA58K)	Link (https://dl.google.com/dl/android/aosp/razorg-mra58k-factory-0f5a7c20.zip)	0f5a7c205a5ba7b386266c76c40d0d51a73f87ef246004
6.0.0 (MRA58N)	Link (https://dl.google.com/dl/android/aosp/razorg-mra58n-factory-53fbc37c.zip)	53fbc37c464be17d00dc4968a390269379b3135cdfeccf8

6.0.0 (MRA58V)	Link (https://dl.google.com/dl/android/aosp/razorg-mra58v-factory-0811c13a.zip)	0811c13a4bc348c21de5168c54d996688705c6f554ecd6
6.0.0 (MRA59B)	Link (https://dl.google.com/dl/android/aosp/razorg-mra59b-factory-f4950bb4.zip)	f4950bb48808f27624239600705eec295d8edc77a9c741
6.0.1 (MMB29K)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb29k-factory-6cb8af22.zip)	6cb8af22ab0e42f33fa74366d57987f4e84949f8700c32c
6.0.1 (MMB29O)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb29o-factory-eae67311.zip)	eae673113adc18432111bbb3e28ccbc8d8de63dd58490
6.0.1 (MMB29Q)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb29q-factory-167e1d08.zip)	167e1d08d587492e6fb80b8e9f0b4f7045e8e10dd0cd0f0
6.0.1 (MMB29V)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb29v-factory-f3e59c6e.zip)	f3e59c6ee78d6e2a6bd14ffa8b6b9fc0a9fc47b3d52558f6
6.0.1 (MMB29X)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb29x-factory-ae0af307.zip)	ae0af3077a350f6e5b4e8b44089909b288cc6fd6129e502
6.0.1 (MOB30D)	Link (https://dl.google.com/dl/android/aosp/razorg-mob30d-factory-49fcc079.zip)	49fcc07944e8602afb975b96e9a1f92657d084b01856f82
6.0.1 (MMB30H)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb30h-factory-fa562bcf.zip)	fa562bcf201ee6c745151af8c12d21aea56b6995427136b
6.0.1 (MOB30J)	Link (https://dl.google.com/dl/android/aosp/razorg-mob30j-factory-d191030c.zip)	d191030cab8aed8cc3af16f5e6d4d8abb8c1151d54155b
6.0.1 (MMB30J)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb30j-factory-38dd789f.zip)	38dd789f2827beabc3200c7ca5f2e4bc2c0d4e023c0689
6.0.1 (MOB30M)	Link (https://dl.google.com/dl/android/aosp/razorg-mob30m-factory-4cd6548f.zip)	4cd6548fff3c6440b2e903f50209bfc1510f2ef91d9214e3

6.0.1 (MMB30M)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb30m-factory-e6005833.zip)	e600583325a4d50dce17c3aa9f3f7c7a875344d65b3b1a
6.0.1 (MOB30P)	Link (https://dl.google.com/dl/android/aosp/razorg-mob30p-factory-4bece435.zip)	4bece43545381a49428d96708de0933c755b3433c45d7
6.0.1 (MMB30S)	Link (https://dl.google.com/dl/android/aosp/razorg-mmb30s-factory-091a2b26.zip)	091a2b263e7f71ecab03d7bed5c58333bdab16fb085646
6.0.1 (MOB30X)	Link (https://dl.google.com/dl/android/aosp/razorg-mob30x-factory-10b7ca08.zip)	10b7ca083e4c0ce193904faca8841594f680e61b63da7e

"mantaray" for Nexus 10

Version	Download	SHA-256 Checksum
4.2.2 (JDQ39)	Link (https://dl.google.com/dl/android/aosp/mantaray-jdq39-factory-f36846bb.zip)	f36846bb4b228d01d208a99b6c02f5f2f6cf9e8034510
4.3 (JWR66Y)	Link (https://dl.google.com/dl/android/aosp/mantaray-jwr66y-factory-af9fdf29.zip)	af9fdf296e084ba904bcc0849746d15f3864a6524676a
4.4 (KRT16S)	Link (https://dl.google.com/dl/android/aosp/mantaray-krt16s-factory-ffbec876.zip)	ffbec876b1b687833ac386b3b2c97d8a2b5d02deec95f
4.4.2 (KOT49H)	Link (https://dl.google.com/dl/android/aosp/mantaray-kot49h-factory-31e93f8d.zip)	31e93f8d2f09408ae5981a38db83705e8181f79a749de
4.4.3 (KTU84L)	Link (https://dl.google.com/dl/android/aosp/mantaray-ktu84l-factory-da64399f.zip)	da64399fd39a24232cec93b89427248df0845f9f41867
4.4.4	Link	21949d5d54356388c4b97493817a40f6b3aa82d423e2

(KTU84P)	(https://dl.google.com/dl/android/aosp/mantaray-ktu84p-factory-21949d5d.zip)	
5.0	Link	0ba5bf74c2999280f06cdf7e8e61b07c43dd5b0e21cb0
(LRX21P)	(https://dl.google.com/dl/android/aosp/mantaray-lrx21p-factory-0ba5bf74.zip)	
5.0.1	Link	ac6bdf60e1db208fbaf34c0adc214a9857c67db28a0ba
(LRX22C)	(https://dl.google.com/dl/android/aosp/mantaray-lrx22c-factory-ac6bdf60.zip)	
5.0.2	Link	7f1af28ea70841e1bc602187cc7ee3f5531aa90e730d5
(LRX22G)	(https://dl.google.com/dl/android/aosp/mantaray-lrx22g-factory-7f1af28e.zip)	
5.1.0	Link	00f8e48aae783941d7f41254d887c444402f0d624b69f
(LMY47D)	(https://dl.google.com/dl/android/aosp/mantaray-lmy47d-factory-00f8e48a.zip)	
5.1.1	Link	66a84c659286a9ea44a192e125bdd202d48573fcfbf85
(LMY47V)	(https://dl.google.com/dl/android/aosp/mantaray-lmy47v-factory-66a84c65.zip)	
5.1.1	Link	0fa0cdbbc470db4a0379596c68e1579da3eb607a38aa1
(LMY48I)	(https://dl.google.com/dl/android/aosp/mantaray-lmy48i-factory-0fa0cdbbc.zip)	
5.1.1	Link	7fefa227f288d54814d2ce15740cb51f5fe887b4b1fe82
(LMY48M)	(https://dl.google.com/dl/android/aosp/mantaray-lmy48m-factory-7fefa227.zip)	
5.1.1	Link	6393672b4dd1f2f97a3e5788efcfdb6a5730c6968b06f
(LMY48T)	(https://dl.google.com/dl/android/aosp/mantaray-lmy48t-factory-6393672b.zip)	
5.1.1	Link	f16fd70b3b93c47d2c73e3cbc813d8f9f7e64426ba165
(LMY48X)	(https://dl.google.com/dl/android/aosp/mantaray-lmy48x-factory-f16fd70b.zip)	
5.1.1	Link	335473d6a8bd4e908384c7d95994c205a8ed37ce5308
(LMY48Z)	(https://dl.google.com/dl/android/aosp/mantaray-lmy48z-factory-335473d6.zip)	
5.1.1	Link	c079e4a5933798325e6dad6ca596ace2df9eff3c1b06f
(LMY49F)	(https://dl.google.com/dl/android/aosp/mantaray-lmy49f-factory-c079e4a5.zip)	
5.1.1	Link	d68cbae5f3dd41325a7112f913ac5d8e18364b740527

	(LMY49G) (https://dl.google.com/dl/android/aosp/mantaray-lmy49g-factory-d68cbae5.zip)	
5.1.1	Link	ee7b7ce5e953227990a30aee0df47ec56ca175c0e437
	(LMY49H) (https://dl.google.com/dl/android/aosp/mantaray-lmy49h-factory-ee7b7ce5.zip)	
5.1.1	Link	b24f40e64a1c7e4a986be9596223737fb2fe0fb739160
	(LMY49J) (https://dl.google.com/dl/android/aosp/mantaray-lmy49j-factory-b24f40e6.zip)	

"occam" for Nexus 4

Version	Download	SHA-256 Checksum
4.2.2	Link	5880aa93a1b14397b8162d4c4936267b52cac94035bc53
	(JDQ39) (https://dl.google.com/dl/android/aosp/occam-jdq39-factory-5880aa93.zip)	
4.3	Link	2b869d2f61c53a6018b48d13dfb3078bbd87ac79bba333
	(JWR66Y) (https://dl.google.com/dl/android/aosp/occam-jwr66y-factory-2b869d2f.zip)	
4.4	Link	3fb36835bf216b0d1426db5455ba7c435535b31b28dc1b
	(KRT16S) (https://dl.google.com/dl/android/aosp/occam-krt16s-factory-3fb36835.zip)	
4.4.2	Link	e859c810cb053b55e95e9663a33fe0175b5a388435d5d0
	(KOT49H) (https://dl.google.com/dl/android/aosp/occam-kot49h-factory-e859c810.zip)	
4.4.3	Link	6e75c072c9f4ece87e1bc4094b397bf86f4baf9b2141effd
	(KTU84L) (https://dl.google.com/dl/android/aosp/occam-ktu84l-factory-6e75c072.zip)	
4.4.4	Link	2373a5419f8e1f35f05f916d9ad2979b106b03193c3906e
	(KTU84P) (https://dl.google.com/dl/android/aosp/occam-ktu84p-factory-2373a541.zip)	
5.0	Link	96341e4d26586141f404a293345d0fc0483b4a9b5654eb
	(LRX21T) (https://dl.google.com/dl/android/aosp/occam-lrx21t-factory-96341e4d.zip)	

5.0.1 (LRX22C)	Link (https://dl.google.com/dl/android/aosp/occam-lrx22c-factory-3657b013.zip)	3657b013b097a893d5a84bcdb43093ba463f44abc79268
5.1.0 (LMY47O)	Link (https://dl.google.com/dl/android/aosp/occam-lmy47o-factory-41497579.zip)	414975799076d8f6997d2b028e84c9dd5ac9eb45ca4410
5.1.1 (LMY47V)	Link (https://dl.google.com/dl/android/aosp/occam-lmy47v-factory-85f8c9ff.zip)	85f8c9ff82f2eb60abacc9abacac19b3a837c044a974bc2f
5.1.1 (LMY48I)	Link (https://dl.google.com/dl/android/aosp/occam-lmy48i-factory-f0ac517a.zip)	f0ac517ad0ff8261fae610bec4e9f145d99a078fe066e406
5.1.1 (LMY48M)	Link (https://dl.google.com/dl/android/aosp/occam-lmy48m-factory-791d6c4a.zip)	791d6c4a716ceadbb830d67db823f377067becd2eca6da
5.1.1 (LMY48T)	Link (https://dl.google.com/dl/android/aosp/occam-lmy48t-factory-c43c7cf4.zip)	c43c7cf47e77ae97dad0c2e0f3810f84bc5e2ca3b4dc742

"nakasi" for Nexus 7 (Wi-Fi)

Version	Download	SHA-256 Checksum
4.1.2 (JZO54K)	Link (https://dl.google.com/dl/android/aosp/nakasi-jzo54k-factory-25cab35c.zip)	25cab35cfc81a7d92679deece485590dd62070882124149
4.2.2 (JDQ39)	Link (https://dl.google.com/dl/android/aosp/nakasi-jdq39-factory-1ed5719b.zip)	1ed5719bbf2a709f090f8d1da5c3afc62d6fcb381ee2559f
4.3 (JWR66Y)	Link (https://dl.google.com/dl/android/aosp/nakasi-jwr66y-factory-201de0b2.zip)	201de0b22cac0d5c8d51b249bf85dbe803b9a63b3eb1a7c

4.4	Link	7e5a44631d7f7df7312c52fedd5fdd5ec4a2d94a99d173c8
(KRT16S)	(https://dl.google.com/dl/android/aosp/nakasi-krt16s-factory-7e5a4463.zip)	
4.4.2	Link	f0e49b7a6a4bbe82019a60b919a75c9c18425c869e5de95
(KOT49H)	(https://dl.google.com/dl/android/aosp/nakasi-kot49h-factory-f0e49b7a.zip)	
4.4.3	Link	933858800b0fa94d2ee2289506c10065e2be9570852d84f
(KTU84L)	(https://dl.google.com/dl/android/aosp/nakasi-ktu84l-factory-93385880.zip)	
4.4.4	Link	9482e892e274e27cc18028e82e206b2e9de82f17cd29ea6
(KTU84P)	(https://dl.google.com/dl/android/aosp/nakasi-ktu84p-factory-9482e892.zip)	
5.0	Link	7d66743ed60fba0d83a44513c7a98e912302fa5c1f5634c
(LRX21P)	(https://dl.google.com/dl/android/aosp/nakasi-lrx21p-factory-7d66743e.zip)	
5.0.2	Link	386f8be2ae4ca68486535130f19eae68c93c59c770ea3e1
(LRX22G)	(https://dl.google.com/dl/android/aosp/nakasi-lrx22g-factory-386f8be2.zip)	
5.1.0	Link	7f853a00ac20643c216e28f220a34c14024404240c9dd5f
(LMY47D)	(https://dl.google.com/dl/android/aosp/nakasi-lmy47d-factory-7f853a00.zip)	
5.1.1	Link	5a0bb0593ee9867bee61d59e94462e681c050da9db1397
(LMY47V)	(https://dl.google.com/dl/android/aosp/nakasi-lmy47v-factory-5a0bb059.zip)	

"nakasig" for Nexus 7 (Mobile)

Version	Download	SHA-256 Checksum
4.2.2	Link	3ec660030b502a34bb2ed037eff55c79545b9b11f0bcf5f
(JDQ39)	(https://dl.google.com/dl/android/aosp/nakasig-jdq39-factory-3ec66003.zip)	
4.3	Link	cd7ba7a0af525ba276442ad6d061f1cdb1a00daba8165f

(JWR66Y) (https://dl.google.com/dl/android/aosp/nakasig-jwr66y-factory-cd7ba7a0.zip)		
4.4	Link	e25602316aa198ac6afddb40c5758749b5b47e4574b328
(KRT16S) (https://dl.google.com/dl/android/aosp/nakasig-krt16s-factory-e2560231.zip)		
4.4.2	Link	624696368457946bce4b34a42759ab35ba1e226ffbfde5
(KOT49H) (https://dl.google.com/dl/android/aosp/nakasig-kot49h-factory-62469636.zip)		
4.4.3	Link	d2e16b2a7c81d1f6cea2a60f61cfa983cf181cdbb6224b4
(KTU84L) (https://dl.google.com/dl/android/aosp/nakasig-ktu84l-factory-d2e16b2a.zip)		
4.4.4	Link	ddaf388582775b569539a43791f94cb6b3475559864ee4
(KTU84P) (https://dl.google.com/dl/android/aosp/nakasig-ktu84p-factory-ddaf3885.zip)		
5.0.2	Link	bbbc5d726de1af4c524830a39de4431c17531b4affab3b
(LRX22G) (https://dl.google.com/dl/android/aosp/nakasig-lrx22g-factory-bbbc5d72.zip)		
5.1.0	Link	3cccf586cea8a8117e6577d73f41d093e7450d33157e87
(LMY47D) (https://dl.google.com/dl/android/aosp/nakasig-lmy47d-factory-3cccf586.zip)		
5.1.1	Link	f96fcd164f2ef8f1d7c88efd553b6b7193fe56326e5ad482
(LMY47V) (https://dl.google.com/dl/android/aosp/nakasig-lmy47v-factory-f96fcd16.zip)		

"tungsten" for Nexus Q

Version Download	SHA-256 Checksum
4.0.4 Link	d766e5f1eb7cd276864bb255593279788a4c44a393590
(IAN67K) (https://dl.google.com/dl/android/aosp/tungsten-ian67k-factory-d766e5f1.zip)	

"takju" for Galaxy Nexus "maguro" (GSM/HSPA+) (with Google Wallet)

Version	Download	SHA-256 Checksum
4.0.4 (IMM76I)	Link (https://dl.google.com/dl/android/aosp/takju-imm76i-factory-1c4370b4.zip)	1c4370b411bd23179277e8bc42f1eb8c9a344980bf30e305
4.1.2 (JZO54K)	Link (https://dl.google.com/dl/android/aosp/takju-jzo54k-factory-50c467ac.zip)	50c467acdc6e7d512663ac587207a0b1eadb762e5d66afbc
4.2.2 (JDQ39)	Link (https://dl.google.com/dl/android/aosp/takju-jdq39-factory-4bf9521a.zip)	4bf9521a436e3d1db194a5e1837729088a4a5ad1e57ea09b
4.3 (JWR66Y)	Link (https://dl.google.com/dl/android/aosp/takju-jwr66y-factory-c042afa0.zip)	c042afa00fbfaf547ff767dfa9f72df1421525c1e3dbc77fa58

"yakju" for Galaxy Nexus "maguro" (GSM/HSPA+)

Version	Download	SHA-256 Checksum
4.0.4 (IMM76I)	Link (https://dl.google.com/dl/android/aosp/yakju-imm76i-factory-7e04639e.zip)	7e04639eee9459a94ee4ae7d1675e5a857bbf89ce36f4140
4.1.2 (JZO54K)	Link (https://dl.google.com/dl/android/aosp/yakju-jzo54k-factory-d75228cf.zip)	d75228cffdc9d0f88d6ed9c63f79c35123269a1ed860df305
4.2.2 (JDQ39)	Link (https://dl.google.com/dl/android/aosp/yakju-jdq39-factory-6f07b069.zip)	6f07b0690a3853fb7bd9915be2ea38525486c9fa0c474dac
4.3 (JWR66Y)	Link (https://dl.google.com/dl/android/aosp/yakju-jwr66y-factory-4cadea65.zip)	4cadea65393c1cc6f2a61232001fc34a37d4a8c95c2439ad

"mysid" for Galaxy Nexus "toro" (Verizon CDMA/LTE)

Version	Download	SHA-256 Checksum
4.0.4	Link (IMM76K) (https://dl.google.com/dl/android/aosp/mysid-imm76k-factory-09d74d64.zip)	09d74d643fd37411efeb66050883de389142788c8eccbd3
4.1.1	Link (JRO03O) (https://dl.google.com/dl/android/aosp/mysid-jro03o-factory-1cc98d31.zip)	1cc98d314f94cc873853831936d00f9cab9be774f8b78fc5
4.2.2	Link (JDQ39) (https://dl.google.com/dl/android/aosp/mysid-jdq39-factory-335d5931.zip)	335d5931c3860e37748e26d719e9d18e5baf9e9f0bd2af9a

"mysidspr" for Galaxy Nexus "toroplus" (Sprint CDMA/LTE)

Version	Download	SHA-256 Checksum
4.1.1	Link (FH05) (https://dl.google.com/dl/android/aosp/mysidspr-fh05-factory-ff03148b.zip)	ff03148b27757fb7e83dc6a545f51ddc8b808e612406cf9
4.2.1	Link (GA02) (https://dl.google.com/dl/android/aosp/mysidspr-ga02-factory-063123bd.zip)	063123bd699b1dfaef38591ad44bba453df1765051e7ee

"soju" for Nexus S (worldwide version, i9020t and i9023)

Version	Download	SHA-256 Checksum
2.3.6 (GRK39F)	Link (https://dl.google.com/dl/android/aosp/soju-grk39f-factory-8e283784.zip)	8e2837843881e0848d8307f01eaefb1489762e6eeda36f628
4.0.4 (IMM76D)	Link (https://dl.google.com/dl/android/aosp/soju-imm76d-factory-c6e0efe3.zip)	c6e0efe396c9e1bc9f932926b4c439fecc56f624c6c9bee920
4.1.2 (JZO54K)	Link (https://dl.google.com/dl/android/aosp/soju-jzo54k-factory-3534fc3e.zip)	3534fc3ecd8d9742791f18d6e427ba342db6adacbfbe3c5f1f

"sojua" for Nexus S (850MHz version, i9020a)

Version	Download	SHA-256 Checksum
2.3.6 (GRK39F)	Link (https://dl.google.com/dl/android/aosp/sojua-grk39f-factory-cad4ab8a.zip)	cad4ab8aab10b37467795b0e7ddde6d63360ed9c6f27a203
4.0.4 (IMM76D)	Link (https://dl.google.com/dl/android/aosp/sojua-imm76d-factory-174c6bd1.zip)	174c6bd19aa4e0d56187f64d09bdc595e601a4f48c048630
4.1.2 (JZO54K)	Link (https://dl.google.com/dl/android/aosp/sojua-jzo54k-factory-860d0729.zip)	860d072998c6a5764a5c3b7d3a2c266615959751d550077

"sojuk" for Nexus S (Korea version, m200)

Version	Download	SHA-256 Checksum
2.3.6 (GRK39F)	Link	3910e795e66e3e5beb74e6246ac1b59280a2abaea3d99b8

	(https://dl.google.com/dl/android/aosp/sojuk-grk39f-factory-3910e795.zip)	
4.0.4	Link	9a5468c1aeaa201bf42553b86e6bbf83eefd237e540c13c9f
(IMM76D)	(https://dl.google.com/dl/android/aosp/sojuk-imm76d-factory-9a5468c1.zip)	
4.1.1	Link	176dca0aacb4601ed67961a4ab3b32714a93ec608adf3f4e
(JRO03E)	(https://dl.google.com/dl/android/aosp/sojuk-jro03e-factory-176dca0a.zip)	

"sojus" for Nexus S 4G (d720)

Version	Download	SHA-256 Checksum
2.3.7	Link	fe1fe8846d8b8e3642a5b303cb20b9aefd6e46e9f5ad142a7
(GWK74)	(https://dl.google.com/dl/android/aosp/sojus-gwk74-factory-fe1fe884.zip)	
4.0.4	Link	e4190dff02df6cda7c4109c76ccf758071ab03f87d48720c9
(IMM76D)	(https://dl.google.com/dl/android/aosp/sojus-imm76d-factory-e4190dff.zip)	
4.1.1	Link	b78689114651587d1ff34ab4d3af9dc0885da3c6f70807e4
(JRO03R)	(https://dl.google.com/dl/android/aosp/sojus-jro03r-factory-b7868911.zip)	

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/) (<https://creativecommons.org/licenses/by/4.0/>), and code samples are licensed under the [Apache 2.0 License](https://www.apache.org/licenses/LICENSE-2.0) (<https://www.apache.org/licenses/LICENSE-2.0>). For details, see our [Site Policies](https://developers.google.com/terms/site-policies) (<https://developers.google.com/terms/site-policies>). Java is a registered trademark of Oracle and/or its affiliates.

Last updated August 22, 2018.