Date	3-15-2019
Release	kaios_jio_quoin_2_5_20181106_R3_ER5_production
non-KaiOS APP tag for JIO Qwerty phone	jio_apps_2.5_230119_2.8_qwerty
non-KaiOS APP tag for JIO Candy Bar phone	jio_apps_2.5_230119_2.9_candybar
Type	**TA Candidate Release**

Integration Dependencies

1. Integration based on Qualcomm Grease release AU_LINUX_GECKO_LF.BR.1.2.8.C2.00.00.00.000.106

2. [ODM - MANDATORY] Add Reverie RT9/QWERTY Library to manifest:
For candy bar:
<project name="platform_external_librt9" path="external/librt9" remote="quoin"
revision="refs/tags/kaios_jio_quoin_2_5_20181106_R3_ER5_production"/>

For qwerty:
<project name="platform_external_librqwerty" path="external/librqwerty" remote="quoin"
revision="refs/tags/kaios_jio_quoin_2_5_20181106_R3_ER5_production"/>

3. [ODM - Optional] Additional repo for MMI Test source is made available to ODMs:
<project name="platform_system_mmitest" path="system/mmitest" remote="quoin"
revision="refs/tags/kaios_jio_quoin_2_5_20181106_R3_ER5_production"/>

4. [ODM - MANDATORY /NFC] For NFC Devices Add nfcd project from KaiOS:
<project name="platform_system_nfcd" path="system/nfcd" remote="quoin"
revision="refs/tags/kaios_jio_quoin_2_5_20181106_R3_ER5_production"/>

5. [ODM] Needed for altering Jio Store server settings - add below project:
<project name="kaios-plus.kaiostech.com" path="apps/kaios-plus.kaiostech.com" remote="quoin"
revision="refs/tags/kaios_jio_quoin_2_5_20181106_R3_ER5_production"/>

6. [ODM - MANDATORY] Add Jio Sales Tracker from Adups (ODMs to get username & password from Adups):
6.1 clone project from Adups into external/sales-tracker/ directory:
  1. Go to web: http://rgit.adups.com/customer/Sales_Tracker.git
  2. Login with user name: odm (password is same as before)
6.2 add below line in device/qcom/common/common.mk:
  $(call inherit-product-if-exists, external/sales-tracker/sales-tracker.mk)

7. [ODM – MANDATORY] for Metrics Daemon:
7.1 Add two repositories in manifest
  <project name="metrics" path="services/metrics" remote="quoin"
revision="refs/tags/kaios_jio_quoin_2_5_20181106_R3_ER5_production"/>
  <project name="rust-toolchain" path="prebuilts/rust" remote="quoin"
revision="refs/tags/kaios_jio_quoin_2_5_20181106_R3_ER5_production"/>
7.2 Take below system_core patch
  https://github.com/kaiostech/platform_system_core/commit/c30d1b4202dccd4243755226085cb6eaecc8b86a
7.3 if RJIO requests to enable performance and usage data sharing, please change SHARE_PERF_USAGE in gaia/Makefile from 0 to 1 like below:
Share performance and usage data
SHARE_PERF_USAGE?=1

Notes

1. Launch log manager with *#*#0574#*#*
2. Launch MMITest app with *#2886#
3. Please contact NXP for release note and information on NFC_NCIx_KRC0.2.11.0 release
4. revert api-daemon to commit https://git.kaiostech.com/quoin/api-daemon/commit/14cb78c04981d0fea6ebd3705f23dec28090901c to fix bug57083
5. revert patch of bug44287 and bug50171 to remove 2000 contacts sync limitation and fix bug57502/51303

ODM Config

Model Name	ro.product.model
KaiOS version	ro.product.version_tag = kaios_jio_quoin_2_5_20181106_R3_ER5_production
ODM version	ro.build.version.incremental
Chipset version	ro.product.base_version
SAR Value	ro.product.sar_value **e.g. ro.product.sar_value=1.23**
Network types UI	ro.moz.ril.0.network_types **e.g. ro.moz.ril.0.network_types=gsm,wcdma,lte**
Torch LED	ro.kaios.torch_node=/sys/class/leds/flashlight/brightness ro.kaios.torch_enable_value=127

Enable NFC	1. Include NXP/KaiOS projects 2. set ro.moz.nfc.enabled = true
CU Reference (Please consult Jio)	deviceinfo.cu needs to be defined in ../gaia/distribution/settings.json; Please check with Reliance JIO team on the value of CU Reference, in general, it is same as CU Ref used by FOTA which means deviceinfo.cu shares same value as ro.fota.cu_ref; + "deviceinfo.cu" : "XXXX-YYYZZZ",
KaiOS FOTA Parameters (Please consult Jio)	ro.fota.cu_ref: ro.fota.sw_ver: ro.fota.SUMaster: ro.fota.network_type: ro.fota.network_port: (default 80)
KaiOS FOTA diff tool	Please kindly get associated FOTA diff tool from git server which is under ../fota_tools; If BLOCK FOTA is needed, the version information of FOTA diff tool is under ../fota_tools/BLOCK/tools_version.sh and the version for this release is v1.6.0 which full update the bootloader image(sbl1, tz, rpm, aboot) if they are different between source and taget; Taking BLOCK FOTA diff tool as an example, following steps can be used to make full modem diff package: 1. put source and target softwares into softeware/src and softeware/tgt 2. then run ./prepare_pkg_start.sh and ./gen_update_pkg_start.sh
Device Pref (see options below)	1. Create a new directory under device directory with the name "default-prefs" (e.g. /device/qcom/msm8909_512） 2. created a new file name "dev-pref.js" inside the directory "default-prefs" Add below preferences into this file 3. In the Device mk file (e.g. device/qcom/msm8909_512/msm8909_512.mk) add EXPORT_DEVICE_PREFS line: e.g. EXPORT_DEVICE_PREFS := /device/qcom/msm8909_512/default-prefs
Browser UA String	pref("general.useragent.use_device", true); pref("general.useragent.device_string", "[*Device String*]");
Internal FM Antenna	pref('dom.fmradio.antenna.internal', true);
Jio Push Server	pref("dom.push.serverURL", "wss://push.kai.jiophone.net:443/");
IPv6	If JIO requests to turn on IPv6 tethering, please add new flag in makefile such as ../msm8909_512.mk as: # Enable IPv6 tethering ENABLE_RADVD := true
ViLTE (IR94)	If JIO requests to turn on or off IR94, please go to ../dev-pref.js and set following flag as true or false accordingly: device.capability.vilte turn off by default as per RJIO request in ticket 43670 comment 20
VoWiFi (IR51)	If JIO requests to turn on or off IR51, please go to ../dev-pref.js and set following flag as true or false accordingly: device.capability.vowifi turn off by default as per RJIO request in ticket 43670 comment 31
eMBMS	1. The board config "TARGET_ENABLE_EMBMS" can only be configured by Kai, default is TRUE. 2. The pref "dom.embms.enabled" is proposed to work as a confirming toggle for OEMs to disable EMBMS on demand in case "TARGET_ENABLE_EMBMS" is true in prebuilt gecko. Here is the code piece of b2g/app/b2g.js: // Disable eMBMS by default. +#ifdef ENABLE_EMBMS +pref("dom.embms.enabled", false); +#endif If OEM doesn't get source from KaiOS, please toggle pref "dom.embms.enabled" in proc-prefs.js or dev-pref.js file instead of b2g.js. ex: in /device/qcom/msm8909_512/default-prefs/proc-prefs.js, put pref("dom.embms.enabled", true); 3. If "TARGET_ENABLE_EMBMS" is false, EMBMS will be definitely disabled regardless of the value of "dom.embms.enabled".

Qwerty device related config.	Please add BOARD_HAVE_QWERTY := true into board config makefile, each hardware has its own board configfile such as device/qcom/msm8909_512/msm8909_512.mk, please check with your HW supplier on which board is used for this project; Please add pref("device.capability.qwerty", true) and APP developer can use code such as"navigator.hasFeature("device.capability.qwerty") == true" to know that current device is under landscapemode; Please set "orientation": "landscape-primary" in the manifest.webapp of concerned web APP such as MMITest module; Please add ENABLE_REVERIE_QWERTY := true to board config makefile; Please add pref("device.capability.endcall-key", true) to ../dev-pref.js; pref("device.capability.endcall-key", true) be added to ../dev-pref.js as by default setting in qwerty;
Dual SIM	Please add following new proprety to board config makefile, each hardware has its own board configfile such as device/qcom/msm8909_512/msm8909_512.mk, please check with your HW supplier on which board is used for this project; +persist.radio.multisim.config=dsds Please kindly check with Reliance JIO whether SIM1 needs to be fixed as JIO SIM only (LTE only) and SIM2 need to be fixed as GSM only, if so, please set - ro.moz.ril.0.network_types=gsm,wcdma,lte + ro.moz.ril.0.network_types=lte + ro.moz.ril.1.network_types=gsm

api-dameon	If api-dameon needs to be turn-on per the request of JIO, please kindly:
	1. please make sure that following two git repositories has been correctly synchronized based on manifest:
	  <project name="api-daemon" path="services/api-daemon"/>
	  <project name="ads-sdk" path="services/ads-sdk"/>
	
	2. KaiOS adds following line of code to ../gonk-misc/b2g.mk and ODM can double check:
	PRODUCT_PACKAGES += api-daemon ads-sdk
	
	3. KaiOS adds following line of code to ../gonk-misc/init.b2g.rc and ODM can double check:
	service api-daemon /system/kaios/api-daemon /system/kaios/config.toml
	    class main
	    user root
	
	4. please check that QCOM code, ../system/core/libcutils/fs_config.c, includes following:
	  { 00775, AID_ROOT, AID_ROOT, 0, "system/kaios/api-daemon" },
	
	Please note, ODM can check with QCOM if ODM would like to understand how new Linux process can be added to system SW. By 09:00am, GMT+8, May, 18, 2018, reference code developed by QCOM for this purpose can be found on CodeAurora at https://source.codeaurora.org/quic/la/platform/system/core/tree/libcutils/fs_config.c?h=LF.BR.1.2.8.c2-06900-8x09.0#n114, ODM can check with QCOM if further clarification is needed;

ODM hardware version	If ODM needs to display HW version by phone UI to end user, ODM can add one new system property as listed as following to makefile, please note, string length of HW version needs to be less than 91 characters: + ro.hardware=; For instance, ODM may set ro.hardware=ODM name_SKU name_DVTx as HW version; Once the new system property is added and a clean SW build is done, end user can find HW version from phone UI from Settings APP at "Settings -> Device Information -> More information -> Hardware Version";

ODM phone ROM size	Please kindly add ROM size of device in Mbyte to device folder as preference; For instance, if ROM size is 4GByte, please add pref("device.storage.size", 4096); if ROM size is 512MByte, please add pref("device.storage.size", 512);
Enable Marionette for MTBF	If a SW build is needed for MTBF testing, please kindly: 1, use no production SW tag, for instance, TA2_R2, not TA2_R2_production; 2, make a userdebug build;
KaiOS API version	Please kindly double confirm with Reliance JIO on KaiOS API version and add one new preference to ../dev-pref.js accordingly. In general, it should be v2.0 and if it is v2.0, the new added preference will be: + pref("app.kaiapi.version", "2.0")

Issues Fixed	
57036	[REG][Qwerty][DSDS][Call log]The Call information show SIM2 After SIM1 and SIM2 call same phone number
51677	[Qwerty][DSDS][Call log]The Call information show SIM2 After SIM1 and SIM2 call same phone number
35868	[Metrics] enable metrics as default
54488	Data collector :: app usage information is not reported to Jio Background Service(JBS)/DC app consistently.
51303	[Contacts]Frozen screen appears when importing to 2000 contact
57502	Device getting hanged after importing 2000+ contacts from Gmail/SD card,also shows wrong alert "3956 contacts imported"
57228	[CLMID-1150510] [VIT_F90M]: Facebook App is Not functional and pointer disappears after MT call is received
57377	[CLMID-1150510] [VIT_F90M]: Facebook App is Not functional and pointer disappears after MT call is received
56643	Intermittently ADUPS ST not working
57083	[clmid-1150407][VIT_F90M]: Device hangs and becomes unresponsive while accept/decline MT call during video download in whats'app
49107	Ruppee Symbol launch Payment Screen. [CLM ID - 922331]
44427	[PRD] Option to launch Camera with front camera by default
56410	[Camera]Add camera front/rear choice for 'pick' activity.
56841	JIO App tags for R3_ER4 release for QCOM

Dependent Issues	
Following tickets are needed by	
43562	[ViLTE / VoWIFI] VoWiFi Phonebook: Device shall display correct icons during call in status bar & call logs to differentiate Normal call, VoLTE call, VoWiFi call [CLM ID-706225] => it needs QCOM release AU_LINUX_GECKO_LF.BR.1.2.8.C2.00.00.00.000.106
47970	[DATA] Hipri type state is incorrect when WIFI is on. => QCOM needs to release a patch as per bug47970 comment 115, as a follow up patch for bug37523

Known issue	
51387	[FM]There is no "add to favourite" after use preset radio
56378	[FM]It is not fully displayed after add to favorite and rename station