

```
//-----  
Release version = 5.7.7  
branch = 5.7.0_release_branch  
tag = v5.7.7  
date: 6.23.2023
```

General Comments:

1) Tested with RES 5.8.28

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.5  
branch = 5.7.0\_release\_branch

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.1  
branch = 5.7.0\_release\_branch

\*\*\*\*\*BSP\*\*\*\*\*

version 5.7.4  
branch = 5.7.0\_release\_branch

Changes:

- + RS-3406: fix LLA keyloading with KVL-5000: Add support for PPP echo LCP commands, remove compression option, reset upper layer state machine upon config request to LCP layer
- + RS-3377: use common U-Blox GPS driver for two mobile GPS options

```
//-----  
Release version = 5.7.6  
branch = 5.7.0_release_branch  
tag = v5.7.6  
date: 5.18.2023
```

General Comments:

1) Tested with RES 5.8.24

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.4  
branch = 5.7.0\_release\_branch

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.1  
branch = 5.7.0\_release\_branch

\*\*\*\*\*BSP\*\*\*\*\*

version 5.7.4  
branch = 5.7.0\_release\_branch

Changes:

+ RS-3389: add support for low power mobile

```
//-----  
Release version = 5.7.5  
branch = 5.7.0_release_branch  
tag = v5.7.5  
date: 5.4.2023
```

General Comments:

1) Tested with RES 5.8.24

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.3  
branch = 5.7.0\_release\_branch

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.1  
branch = 5.7.0\_release\_branch

\*\*\*\*\*BSP\*\*\*\*\*

version 5.7.3  
branch = 5.7.0\_release\_branch

Changes:

+ RS-3382: always enable GPS on mobile product  
+ Fixing DFSI frame sequencing when TX interrupts RX

```
//-----  
Release version = 5.7.4  
branch = 5.7.0_release_branch  
tag = v5.7.4  
date: 2.17.2023
```

General Comments:

1) Tested with RES 5.8.24

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.2  
branch = 5.7.0\_release\_branch

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.0  
branch = 5.7.0\_release\_branch

\*\*\*\*\*BSP\*\*\*\*\*

version 5.7.3  
branch = 5.7.0\_release\_branch

Changes:

+ RS-3353: Modify AHS text message alert tones

+ RS-3351: add v2 GPIO initialization to mobile, RCH and HHCH  
RS-3351: increase scope of hwver() function so GPIO init can call it  
RS-3351: add V2 GPIOs to the HHCH header file

```
//-----  
Release version = 5.7.3  
branch = 5.7.0_release_branch  
tag = v5.7.3
```

General Comments:

1) Tested with RES 5.8.24

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.1  
branch = 5.7.0\_release\_branch

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.0  
branch = 5.7.0\_release\_branch

\*\*\*\*\*BSP\*\*\*\*\*

version 5.7.2  
branch = 5.7.0\_release\_branch

Changes:

+ RS-3351: Add support for new mobile logic board; more fixes

```
//-----  
Release version = 5.7.2  
branch = 5.7.0_release_branch  
tag = v5.7.2
```

General Comments:

1) Tested with RES 5.8.21

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.1  
branch = 5.7.0\_release\_branch

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.0  
branch = 5.7.0\_release\_branch

\*\*\*\*\*BSP\*\*\*\*\*

version 5.7.2  
branch = 5.7.0\_release\_branch

Changes:

+ RS-3351: (fixes) Add support for new mobile logic board

```
//-----  
Release version = 5.7.1  
branch = 5.7.0_release_branch  
tag = v5.7.1
```

General Comments:

1) Tested with RES 5.8.21

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.1  
branch = 5.7.0\_release\_branch

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.0  
branch = 5.7.0\_release\_branch

\*\*\*\*\*BSP\*\*\*\*\*

version 5.7.1  
branch = 5.7.0\_release\_branch

Changes:

+ RS-3351: Add support for new mobile logic board

```
//-----  
Release version = 5.7.0  
branch = 5.7.0_release_branch  
tag = v5.7.0
```

General Comments:

1) Tested with RES 5.8.20

\*\*\*\*\*ARM\*\*\*\*\*

version 5.7.0  
branch = 5.7.0\_release\_branch  
tag = v5.7.0

+ RS-3197: Handle all defined parameter types in case statements to avoid marking the parm shadow dirty and forcing a shadow save on every power off

\*\*\*\*\*DSP\*\*\*\*\*

version 5.7.0  
branch = 5.7.0\_release\_branch  
tag = v5.7.0

\*\*\*\*\*BSP\*\*\*\*\*

```
version 5.7.0
branch = 5.7.0_release_branch
tag = v5.7.0
```

+ RS-3205: change x-tester flash test to check entire flash

```
//-----
Release version = 5.5.0s
branch = 5.5.0_release_branch
tag = v5.5.0s
```

General Comments:

1) Tested with RES 5.8.14

```
*****ARM*****
version 5.5.0s
branch = 5.5.0_release_branch
tag = v5.5.0s
```

+ RS-3133: Fixing parms shadow save interfering with a clone  
+ PA-3124: Remove requirement that MSB of ESN is 0x10

```
*****DSP*****
version 5.5.0m
branch = 5.5.0_release_branch
tag = v5.5.0s
```

```
*****BSP*****
version 5.5.0o
branch = 5.5.0_release_branch
tag = v5.5.0s
```

```
//-----
Release version = 5.5.0r
branch = 5.5.0_release_branch
tag = v5.5.0r
```

General Comments:

1) Tested with RES 5.8.14

```
*****ARM*****
version 5.5.0r
branch = 5.5.0_release_branch
tag = v5.5.0r
```

+ RS-3121: Grounding pin 11 on DB-25 mobile connector results in a EXT PTT with address 0, which was ignored with RS-3113, but other dependencies exist in the code with address 0. To simplify, removed ignore for address zero (DB-25 pin 11 then works). RCH & HHCH can't report PTT events until address assignment

//-----

Release version = 5.5.0q  
branch = 5.5.0\_release\_branch  
tag = v5.5.0q

General Comments:

1) Tested with RES 5.8.14

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0q  
branch = 5.5.0\_release\_branch  
tag = v5.5.0q

- + RS-3115: Prevent an unknown parameter type from cancelling a clone
- + RS-3113: Fix issue where mobile can get stuck in transmit due to dynamic control head address assignments during transmit. Ignore PTT press commands from control heads until they get an address assigned.
- + TUNA-439: hardware workaround - hard limit keypad backlight PWM duty cycle % when external PTT is pressed to avoid PWM switching frequency from coupling onto external mic
- + TUNA-401: When a channel change interrupts a voice announcement, cancel the voice announcement.
- + TUNA-399: Add support for voice announcement gain
- + RS-3109: Added 0-9,\*,# to the list of programmable softkeys. Users can now program these keys to whatever functions they wish.
- + RS-3106: Display GPS coordinates in Degrees Decimal (DD) format

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0m  
branch = 5.5.0\_release\_branch  
tag = v5.5.0q

- + TUNA-401: Handle the cancel voice annunciation message which is primarily used when a channel change interrupts the announcement.
- + TUNA-399: Add support for voice announcement gain

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0o  
branch = 5.5.0\_release\_branch  
tag = v5.5.0q

- + RS-3111: add xtester to test memory for factory
- + TUNA-42: Identify and fix differences from usb-skeleton - needed to build and work for RS-3111

//-----

Release version = 5.5.0p  
branch = 5.5.0\_release\_branch  
tag = v5.5.0p

General Comments:

1) Tested with RES 5.8.8

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0p  
branch = 5.5.0\_release\_branch  
tag = v5.5.0p

+ RS-3107: Dual mode scan conventional table in memory: last entry is for the selected channel, and is not guaranteed to be valid. Add logic to ensure an invalid channel is not scanned

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0l  
branch = 5.5.0\_release\_branch  
tag = v5.5.0p

NO CHANGE

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0n  
branch = 5.5.0\_release\_branch  
tag = v5.5.0p

NO CHANGE

//-----  
Release version = 5.5.0n  
branch = 5.5.0\_release\_branch  
tag = v5.5.0n

General Comments:

1) Tested with RES 5.8.8

\*\*\*\*\*NOTE\*\*\*\*\*

VERION 5.5.0o skipped to avoid name confusion  
\*\*\*\*\*NOTE\*\*\*\*\*

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0n  
branch = 5.5.0\_release\_branch  
tag = v5.5.0n

+ RS-2701: Extended size of picklist display line to accomodate more than 99 entries

+ TUNA-366: Initializing domain controller mailboxes before initializing the domains to avoid dropping messages on startup.

+ [TUNA-360] Adding null terminator to radio name string.

+ [TUNA-241] MBT #2461: Add support to mute all transmissions from the radio's own

unit ID.

- + RS-3090: Force a parms shadow save after reading from parms file on startup to be ready for a legacy clone as soon as possible.
- + RS-3091: Disable PA fault detection upon a transmit test tx timeout event to avoid false fault detection
- + RS-3087: When cloning from DPH to KNG, keep the existing state for the Allow Cxcss Selection On All Channels zone parameter.
- + RS-3093: Tier1 data transmissions are not available when the channel rx mode is analog
- + RS-3085: For cloning to a DPH, create a backlight always on option from the existing KNG backlight settings.
- + RS-3088: When cloning from DPH to KNG, keep the existing channels 17 and up in the KNG and replace channels 1-16 with the DPH channels.
- + RS-3084: Fix DPH G2 tx power cloning bug. DPH L bit means forced low power transmit, otherwise tx power is selectable. KNG2 has 4 settings: Low, Selectable Low, Selectable High, and High. New cloning map of L bit to KNG2 is Low else Selectable High on the KNG2. From KNG2 to DPH, only Low sets the L bit
- + RS-3086: Fixing UCG menu when legacy cloning. This fixes the behavior of being unable to exit the main menu.
- + RS-3081: [KF-2711] Parse VA\_VOICE\_BLOCK\_RESP even if it's an invalid transaction ID
- + RS-3080: MBT# 2556 Fixed backlight/softpower down issue where backlight didn't turn off
- + RS-3079: fix so mobile external I/O continues to work even if mobileIOEnable.dat file is empty in the storage partition, which occurs after a firmware update post 5.5.0f and before a configuration update
- + RS-3078: Fixing buffer lengths for date/time strings.
- + RS-3076: PR feedback to add nmealength check

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0l

branch = 5.5.0\_release\_branch

tag = v5.5.0n

- + KF-2711: Fix skipping playback of Voice Annunciation while scanning

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0n

branch = 5.5.0\_release\_branch

tag = v5.5.0n

- + RS-3075: handle flash-erase return values
  - return proper error values when failing to erase
  - check the return value in flasher
  - add bad-block error in the return value checks
- + RS-3075: blink the red LED in the x-loader hang function



- Also use the hang() function in some other spots that manually hang with an infinite loop

//-----

Release version = 5.5.0m  
branch = 5.5.0\_release\_branch  
tag = v5.5.0m

General Comments:

1) Tested with RES 5.8.1

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0m  
branch = 5.5.0\_release\_branch  
tag = v5.5.0m

+ TUNA-303: fix to open etc/releaseversion.txt by changing permissions to read-only  
+ RS-3072: If a remote control command to set the volume is received stop volume updates via the volume knob

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0k  
branch = 5.5.0\_release\_branch  
tag = v5.5.0m

NO CHANGE

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0m  
branch = 5.5.0\_release\_branch  
tag = v5.5.0m

+ TUNA-303: mount all but /storage and /log partitions as read-only

//-----

Release version = 5.5.0l  
branch = 5.5.0\_release\_branch  
tag = v5.5.0l

General Comments:

1) Tested with RES 5.8.1

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0l  
branch = 5.5.0\_release\_branch  
tag = v5.5.0l

+ [BKPRT-92] KF-2690: Fixes UI confusion after priority scan turned on while zone scan on

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0k  
branch = 5.5.0\_release\_branch  
tag = v5.5.0l

NO CHANGE

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0l  
branch = 5.5.0\_release\_branch  
tag = v5.5.0l

+ Fixed spelling issue with "Production" in Makefile

//-----

Release version = 5.5.0k  
branch = 5.5.0\_release\_branch  
tag = v5.5.0k

General Comments:

- 1) BSP has 6 additional commits to makefiles that do not affect the code
- 2) DSP has 2 additional commits to makefiles that do not affect the code
- 3) ARM has 15 additional commits to makefiles (and tools, and reversions) that do not affect the code

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0k  
branch = 5.5.0\_release\_branch  
tag = v5.5.0k

- + RS-3059: Merge commit '9da6df3' into bugfix/RS-3059-gps-ublox-8-fix
- + RS-3059: Discard non GPS GSV messages.
- + RS-3059 Fix GPS U-blox 8 message handler
- + [TUNA-174] BKPRT-20: MBT# 2540: Fixed Scan List seg fault issue
- + RS-3044 add parenthesis to logic expressions
- + RS-3044: Making switch/button consistent
- + RS-3044: Finish cherry-pick of RS-2846
- + RS-3044: Merged in RS-2846-enhancement-mode-scan-update-nee (pull request #223)
- + RS-2893 Backport RS-2769 to 5.5

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0k  
branch = 5.5.0\_release\_branch  
tag = v5.5.0k

NO CHANGE

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0k  
branch = 5.5.0\_release\_branch

tag = v5.5.0k

- + RS-3033: Remove RELM splash screen completely
- + RS-3033: Added suport for ILI9327 display

```
//-----  
Release version = 5.5.0j  
branch = 5.5.0_release_branch  
tag = v5.5.0j
```

#### General Comments:

- 1) DSP version tag was created but GLVersion was not updated
- 2) BSP has 1 additional commit to makefiles that do not affect the code
- 3) ARM has 3 additional commits to makefiles that do not affect the code

#### \*\*\*\*\*ARM\*\*\*\*\*

```
version 5.5.0j  
branch = 5.5.0_release_branch  
tag = v5.5.0j
```

- + RS-2892 Complete backport after cherry-picking from 5.6.0
- + RS-2892 Cleanup debug and unused func defs before merge
- + RS-2892 Change UCG menu default to disable
- + RS-2992 UCG selection for cloning to GPH/DPH works
- + RS-2892 Add "INVALID\_STATE" error to trace manager
- + RS-2795 Added UCG menu for DPH clone - unfinished The menu pops up and you can interact with it, but selecting an option does not continue the cloning process
- + RS-2892 Refactoring UILCCM to remove some non-standard style choices
- + KF-2758: Only initialize keyset options if we have an encryption module

#### \*\*\*\*\*DSP\*\*\*\*\*

```
version 5.5.0a  
branch = 5.5.0_release_branch  
tag = v5.5.0j
```

NO CHANGE

#### \*\*\*\*\*BSP\*\*\*\*\*

```
version 5.5.0j  
branch = 5.5.0_release_branch  
tag = v5.5.0j
```

- + RS-2891 Removing RELM logo completely

```
//-----  
Release version = 5.5.0i  
branch = 5.5.0_release_branch  
tag = v5.5.0i
```

#### General Comments:

- 1) DSP version tag was created but GLVersion was not updated
- 2) BSP both tags exist on same commit; localversion.rc is set to 5.5.0c, all releaseversion.txt are set to 5.5.0i

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0i  
branch = 5.5.0\_release\_branch  
tag = v5.5.0i

NO CHANGE

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0a  
branch = 5.5.0\_release\_branch  
tag = v5.5.0i

NO CHANGE

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0c  
branch = 5.5.0\_release\_branch  
tag = v5.5.0c & v5.5.0i

+ dual-mic fix  
+ Updated LZ0 to 2.1.0 (latest stable)

//-----  
Release version = 5.5.0h  
branch = 5.5.0\_release\_branch  
tag = v5.5.0h

General Comments:

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0h  
branch = 5.5.0\_release\_branch  
tag = v5.5.0h

+ MBT# 2230: Keypad Auto PTT feature

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0a  
branch = 5.5.0\_release\_branch  
tag = v5.5.0a

NO CHANGE

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0b

branch = 5.5.0\_release\_branch  
tag = v5.5.0b

NO CHANGE

//-----  
Release version = 5.5.0g  
branch = 5.5.0\_release\_branch  
tag = v5.5.0g

General Comments:

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0g  
branch = 5.5.0\_release\_branch  
tag = v5.5.0g

+ KF-887: fixed issue where toggling the 'I/O Enable' button would set the pin enables to the parms instead of all true for mobile I/O  
+ KF-887: Reworked mobile I/O to support new dynamic addressing

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0a  
branch = 5.5.0\_release\_branch  
tag = v5.5.0a

NO CHANGE

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0b  
branch = 5.5.0\_release\_branch  
tag = v5.5.0b

NO CHANGE

//-----  
Release version = 5.5.0f  
branch = 5.5.0\_release\_branch  
tag = v5.5.0f

General Comments:

1) Baseline for README.txt

\*\*\*\*\*ARM\*\*\*\*\*

version 5.5.0f  
branch = 5.5.0\_release\_branch  
tag = v5.5.0f

Baseline

\*\*\*\*\*DSP\*\*\*\*\*

version 5.5.0a

branch = 5.5.0\_release\_branch

tag = v5.5.0a

Baseline

\*\*\*\*\*BSP\*\*\*\*\*

version 5.5.0b

branch = 5.5.0\_release\_branch

tag = v5.5.0b

Baseline