



**RELEASE NOTE for SD 6.4.5 Software Package
(6.4.5 application, 2.0.5 bootloader)
BUILD DATE 2021-07-27**

SOFTWARE

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SD SERIES SOFTWARE PACKAGE 6.4.8

**** Important Upgrade/Downgrade Info ****

The first SD Series software package to support the hardware enhancements required by the RE Directive 2014/53/EU for shipments after June of 2017 is 5.6.4. Therefore, customers are hereby informed that all SD4 H,I,J, and K transceivers, which include these hardware enhancements, will stop passing data if they are downgraded below revision 5.6.4.

The first SD software package to support hardware changes on SD9 transceivers shipped after August of 2019 and SD4 transceivers after February 2020 was 6.2.8. Downgrading a unit originally shipped with 6.2.8 may result in a non-functional unit.

The first SD software package to support hardware changes on SD1 and SD2 transceivers shipped after February 2020 was 6.3.0. Downgrading a unit originally shipped with 6.3.0 may result in a non-functional unit.

Issues Resolved in 6.4.8 (from 6.4.5)

- Addresses findings in CVE-2022-24117 and CVE-2022-24118 – please see bulletin **GES-2021-018** for more detail
- Fixed an issue with a buffer underrun which would cause an under-baud COM2 configuration (i.e. 4800 baud serial with 9600 OTA) to de-key and re-key before all data had been sent over the air. This caused a loss of some over the air data as the radio would not turn around the TX-RX-back to TX fast enough.

New Features in 6.4.8 (from 6.4.5)

- Finer tuning of the AFC function on the 9600B modem

Changes in 6.4.8 (from 6.4.5)

- The ability to enter an authorization code *before* being logged into the unit has been deprecated and all auth codes must be entered into a unit after being logged in
- 9600B modem receiver improves to allow for better tracking of frequency offsets

- With changes to improved modem tracking the RXTOL CUSTOM2 setting has been deprecated as no longer needed. Deprecation will ignore the setting in 6.2.8 but will still allow older code, if booted back into it, to utilize the parameter setting correctly.
- Added the ability to control the RX channel filter from the user interfaces. "NORMAL" and "WIDE" are supported. "NORMAL" sets the radio RX channel filter to perform like the 5.4.0 firmware. The "WIDE" setting is the wider RX filter that was added in 5.6.x to allow systems that have a large amount of crystal aging/TCXO error to still connect. These changes currently only effect the 12.5 KHz modems. (9600, 9600M, 19200, 19200E).