

Customer-facing highlights ("What's in it for me?")

v4.98 – Improves cellular reliability for roaming SIM cards and network changes: the SL6 now deregisters cleanly during startup when the configured wireless network has changed, waits long enough for the modem to settle before re-selecting the network, and configures Telit PDN recovery (AT#PDNREJECT) so repeated PDP rejections are handled more gracefully. Older modems that do not support the new command are handled without failing initialization.

v4.98

Improved

Roaming SIM and network-change handling

- SetNetworkLe910c1() now deregisters from the network during module init when the stored wireless network setting differs from the modem's current selection
- Removed active polling of AT+CREG? / AT+CEREG? during deregistration; replaced with a single post-deregister wait before issuing AT+WS46=
- GSMINIT_SN_WAIT_BEFORE_NET_SELECTION_TIMEOUT set to 30 s to cover asynchronous dereg completion (typically 2–3 s, longer on weak signal / roaming) plus Telit's recommended settle time before network selection

PDN recovery behavior during GSM init

- Added GSMCOM_GS_SET_PDN_RECOVERY_BEHAVIOR command sending AT#PDNREJECT=1,720,720,33,2,720 during LE910C1 initialization
- Configures automatic recovery after PDP context rejection (cause 33) with unblock/throttle timers of 720 s

Graceful fallback on older modem firmware

- Added GsmCom_AcceptCme100Error() / GsmCom_ReactToCme100Error() to temporarily accept CME ERROR 100 ("command does not exist") for AT#PDNREJECT
- CME ERROR 100 is treated as success for that command only, so init does not fail or trigger an unnecessary modem restart on firmware without PDN reject support
- Flag is always cleared on every exit path (OK, timeout, or unexpected response)

GSM module init robustness

- AT E0 (echo off) now retried up to CMD_RETRIES before init is marked failed

Changed

Network selection flow

- Deregistration path simplified: send AT+CFUN=4 (deregister), wait, then AT+WS46= — no longer polls EPS/network registration status in a loop
- Wait timeout comment documents that 30 s matches the previous dereg-completion poll upper bound from AB#14902

GSM command interface

- New GsmCom_Cmd enum value:
GSMCOM_GS_SET_PDN_RECOVERY_BEHAVIOR
- at_CME_ERROR_response() extended with conditional CME 100 handling via cme100ErrorAccepted flag