

OsmoTRX - Bug #3141

Refactor / clean up TRX CTRL / DATA interfaces implementation

04/05/2018 05:46 PM - fixeria

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| Status: | New | Start date: | 04/05/2018 |
| Priority: | Normal | Due date: | |
| Assignee: | | % Done: | 0% |
| Category: | | | |
| Target version: | | | |
| Spec Reference: | | | |
| Description | | | |
| <p>Some code parts of the Transceiver::driveControl() were already cleaned up, but some parts are still require the refactoring, for example:</p> | | | |
| <pre>int maxDelay; sscanf(params, "%d", &maxDelay); mMaxExpectedDelayAB = maxDelay; // 1 GSM symbol is approx. 1 km sprintf(response, "RSP SETMAXDLY 0 %d", maxDelay);</pre> | | | |
| <p>Here the sscanf may fail, which would result in an uninitialized stack-memory access. This is related to the following commands: SETMAXDLY, SETMAXDLYNB, SETRXGAIN, SETPOWER, ADJPOWER, RXTUNE, TXTUNE, SETTSC, SETSLOT, _SETBURSTTODISKMASK.</p> | | | |
| <p>Both RXTUNE and TXTUNE commands are using integer to parse the freq. value. What if a negative number would arrive?</p> | | | |
| <p>Also, have a look at the Transceiver::driveTxPriorityQueue():</p> | | | |
| <pre>// ... int timeSlot = (int) buffer[0]; // ... GSM::Time currTime = GSM::Time(frameNum, timeSlot); // ...</pre> | | | |
| <p>There is no range check.</p> | | | |
| <p>Feel free to use the TRX Toolkit to fuzz the TRX interface:</p> | | | |
| <p>https://git.osmocom.org/osmocom-bb/tree/src/target/trx_toolkit?h=fixeria/trx</p> | | | |