OsmoMSC - Bug #5196
Verify several "event not permitted" log lines in unit tests
07/12/2021 11:48 AM - pespin

Description
pespin ~/dev/syscom/git/osmo-msc $ ag "not permitted" tests/msc_vlr/ | grep Event
tests/msc_vlr/msc_vlr_test_ms_timeout.err:814:DMSC msc_a(IMSI-901700000004620:GERAN-A:LU){MSC_A_ST_WAIT_CLASSMARK_UPDATE}: Event MSC_A_EV_UNUSED not permitted

We should check whether those events are indeed not expected and only triggered by tests, or whether they can happen and hence we should allow them and handle them properly in the FSM.

Similar to:
https://gerrit.osmocom.org/c/osmo-msc/+/24916 msc_a.c: Allow MSC_A_EV_CN_CLOSE in state MSC_A_ST_RELEASEING

History
#1 - 07/12/2021 01:51 PM - neels
My two cents: often I design the FSMs with the possibility in mind that some events may arrive "out of sequence", like a trivial message received or a sister FSM notification that doesn't matter anymore/yet in some FSM states. Instead of weaving those into all the FSM states' permitted events and ignoring them, i do sometimes simply not bother. Hence we get those "event not permitted" logs, but no harm done really. Except confused users, which does seem to happen more often than not. So it's not critical, but it would still be good to remove that noise from the ERROR log.

Design wise I think it would be nice if osmo_fsm had a separate category for ignored events per each state definition. That way we don't need to list ignored events in every state action function, osmo_fsm would internally handle aka ignore those. It would be immediately visible which events are really, productively expected in a state, and which events are just there to silence error messages. There could also be an allstate list of events to omit the "not permitted" logging for, all across that FSM. (Maybe it would even suffice to only have such an allstate list, instead of individual lists per state?)